CDX-M630

SERVICE MANUAL

Ver 1.0 2002. 03

US Model
Canadian Model
AEP Model
UK Model
E Model

SONY 10026

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-L300/L460X
CD Drive Mechanism Type	MG-393X-121//K
Optical Pick-up Name	KSS-720A

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US MODEL)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
23.2 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5% total harmonic distortion.

CD player section

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	87.5 – 107.9 MHz (US, Canadian model) 87.5 – 108.0 MHz (AEP, UK, E model)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 72 dB (mono)
Harmonic distortion at 1 kHz	0.6% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM (US, Canadian model)

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 μV

MW/LW (AEP, UK, E model)

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 μV LW: 40 μV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	52 W × 4 (at 4 ohms)

General

Outputs	Audio outputs (front/rear) Subwoofer output (mono) Power antenna relay control terminal (US, Canadian model) Power aerial relay control terminal (AEP, UK, E model) Power amplifier control terminal

– Continued on next page –

FM/AM COMPACT DISC PLAYER

US, Canadian Model

FM/MW/LW COMPACT DISC PLAYER

AEP, UK, E Model

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Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

Inputs	Telephone ATT control terminal Illumination control terminal (US, Canadian model) BUS control input terminal BUS audio input or AUX IN terminal Remote controller input terminal Antenna input terminal (US, Canadian model) Aerial input terminal (AEP, UK, E model)
Tone controls	US, Canadian model: Bass ±10 dB at 62 Hz Treble ±10 dB at 16 kHz AEP, UK, E model: Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Loudness	+8 dB at 100 Hz +2 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 182 mm (7 1/8 × 2 × 7 1/4 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 160 mm (7 1/4 × 2 1/8 × 6 3/8 in.) (w/h/d)
Mass	Approx. 1.5 kg (2 lb. 10 oz.)
Supplied accessories	Parts for installation and connections (1 set) Card remote commander RM-X117

Note

This unit cannot be connected to a digital preamplifier or an equalizer.

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

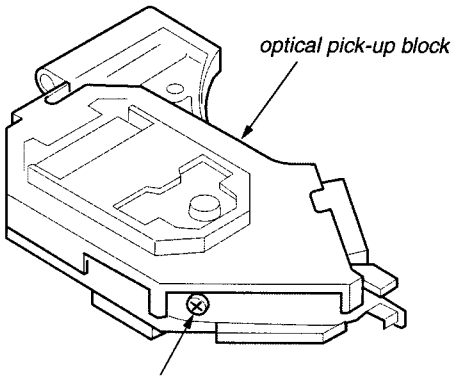
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

US model:

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



AEP, UK, E model:

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

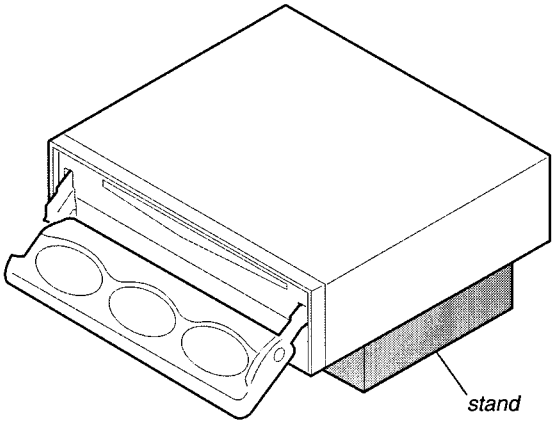
CAUTION—INVISIBLE LASER RADIATION WHEN OPEN
DO NOT STARE INTO BEAM OR
VIEW DIRECTLY WITH OPTICAL INSTRUMENTS

This label is located on the drive unit's internal chassis.

When replacing the chassis (T) of mechanism deck which have the "CAUTION LABEL" attached, please be sure to put a new CAUTION LABEL (3-223-913-11) to the chassis (T).

NOTE FOR THE OPENING OF THE FRONT PANEL

In this set, the front panel is lowered to below the bottom face when it is opened.
When servicing the set, place it on a stand having a height of about 2 cm.



TEST DISCS

This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

CD-R test disc TCD-R082LMT (Part No. J-2501-063-1)
CD-RW test disc TCD-W082L (Part No. J-2501-063-2)

Notes on CD-R/CD-RW discs

- You can play CD-Rs (recordable CDs)/CD-RWs (rewritable CDs) designed for audio use on this unit.
  Look for these marks to distinguish CD-Rs/CD-RWs for audio use.

These marks denote that a disc is not for audio use.

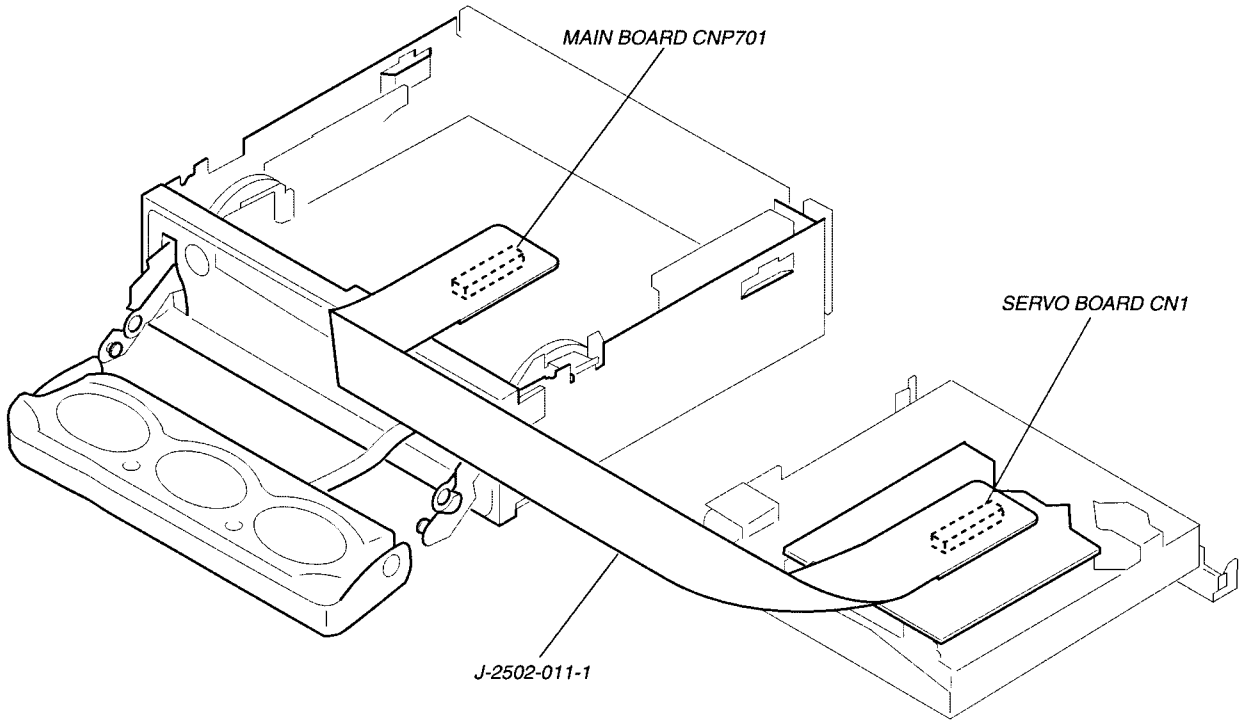
- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/a CD-RW that is not finalized*.

* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

- Connect the MAIN board (CNP701) and the SERVO board (CN1) with the extension cable (Part No. J-2502-011-1).



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SECTION 1
GENERAL

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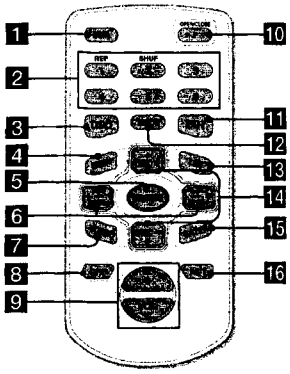
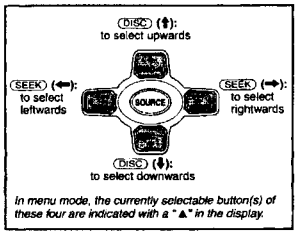
Location of controls (US, Canadian Model)

Card remote commander RM-X117





In menu mode, the currently selectable button(s) of these four are indicated with a "▲" in the display.

Note

If the unit is turned off by pressing (OFF) for 2 seconds, the unit cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

Tip

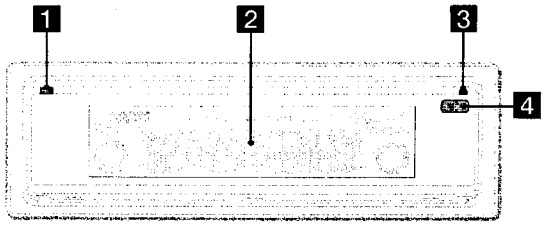
Refer to "Replacing the lithium battery" for details on how to replace the batteries (page 22).

Refer to the pages listed for details.

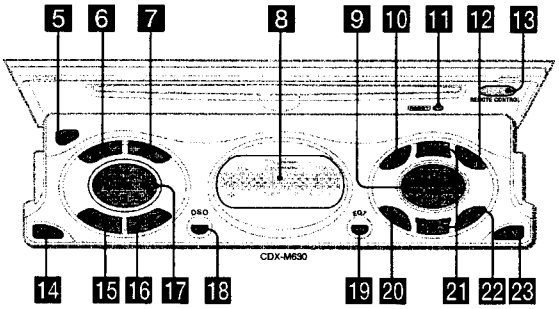
1 **DSPL (display mode change) button**
2 **Number buttons**
① **REP** 10
② **SHUF** 11
To store stations/receive stored stations.
3 **DSO button** 20
4 **MENU button**
To display the menus.
5 **SOURCE (Power on/Radio/CD/MD*1/AUX*2) button**
To select the source.
6 **SEEK (⇐/⇒) buttons**
To skip tracks/fast-forward, reverse a track/tune in stations automatically, find a station manually/select a setting.
7 **SOUND button** 17
8 **OFF (Stop/Power off) button** 9
9 **VOL (+/–) buttons**
To turn up or down the volume.
10 **OPEN/CLOSE button** 9, 23
11 **EQ7 button** 19
12 **MODE button**
To change the operation.
13 **LIST button** 12, 14
14 **DISC (↑/↓) buttons**
To receive preset stations/change the disc*3, skip albums*4/select a menu.
15 **ENTER button**
To enter a setting.
16 **ATT button** 18

*1 *When an optional MD unit is connected.*
*2 *Available only when an optional Sony portable device is connected to BUS AUDIO IN of the unit. You cannot connect any optional CD/MD units at the same time.*
*3 *When an optional CD/MD unit is connected.*
*4 *Available only when an optional CD unit with the MP3 file control function is connected, and MP3 file is played.*

Main display side



Operation side



The buttons on the unit share the same functions as those on the card remote commander.

1 **OPEN button** 8, 9, 23
2 **Main display window**
3 **11 RESET button** 8
4 **13 Receptor for the card remote commander**
5 **OFF (Stop/Power off) button***
6 **SCRL (scroll) button**
7 **DSPL (display mode change) button**
8 **Sub display window**
9 **SEEK/AMS (⏮◀◀/▶▶⏭) button**
10 **MENU button**
12 **LIST button**
14 **CLOSE (front panel close) button** 9
15 **SOURCE button**
16 **MODE button**
17 **VOL (–/+) button**
18 **DSO button**
19 **EQ7 button**
20 **SOUND button**
21 **DISC (+/–) buttons**
22 **ENTER button**
23 **⏏ (eject) button** 9

continue to next page →

Connection example (US, Canadian Model)

Connection example (2)

Notes **(A)**
- *Be sure to connect the ground cord before connecting the amplifier.*
- *If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.*

Tip **(B-a, b)**
For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

Exemple de raccordement (2)

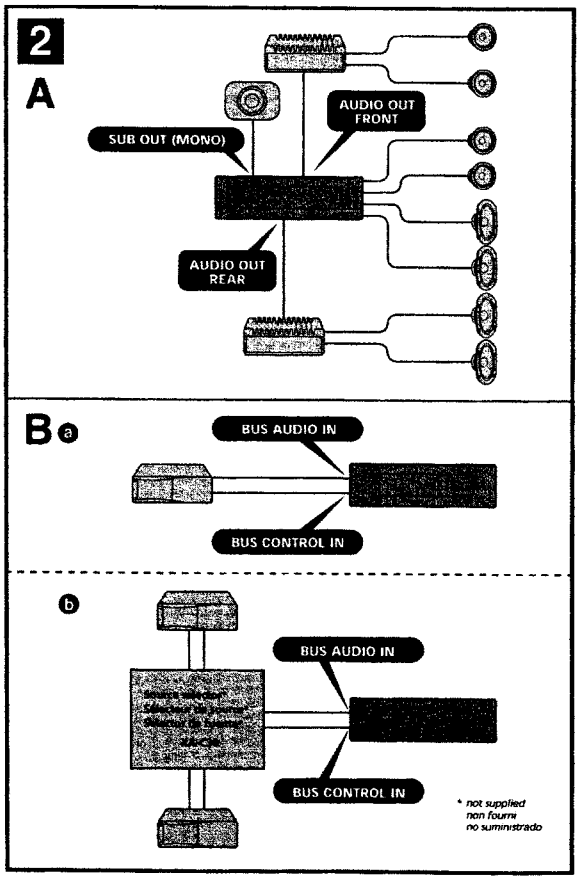
Remarques **(A)**
- *Raccordez le fil de masse avant de raccorder l'amplificateur.*
- *Si vous raccordez un amplificateur de puissance indépendant et que vous n'utilisez pas l'amplificateur intégré, le bip sonore est desactivé.*

Conseil **(B-a, b)**
Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C30 (en option) est nécessaire.

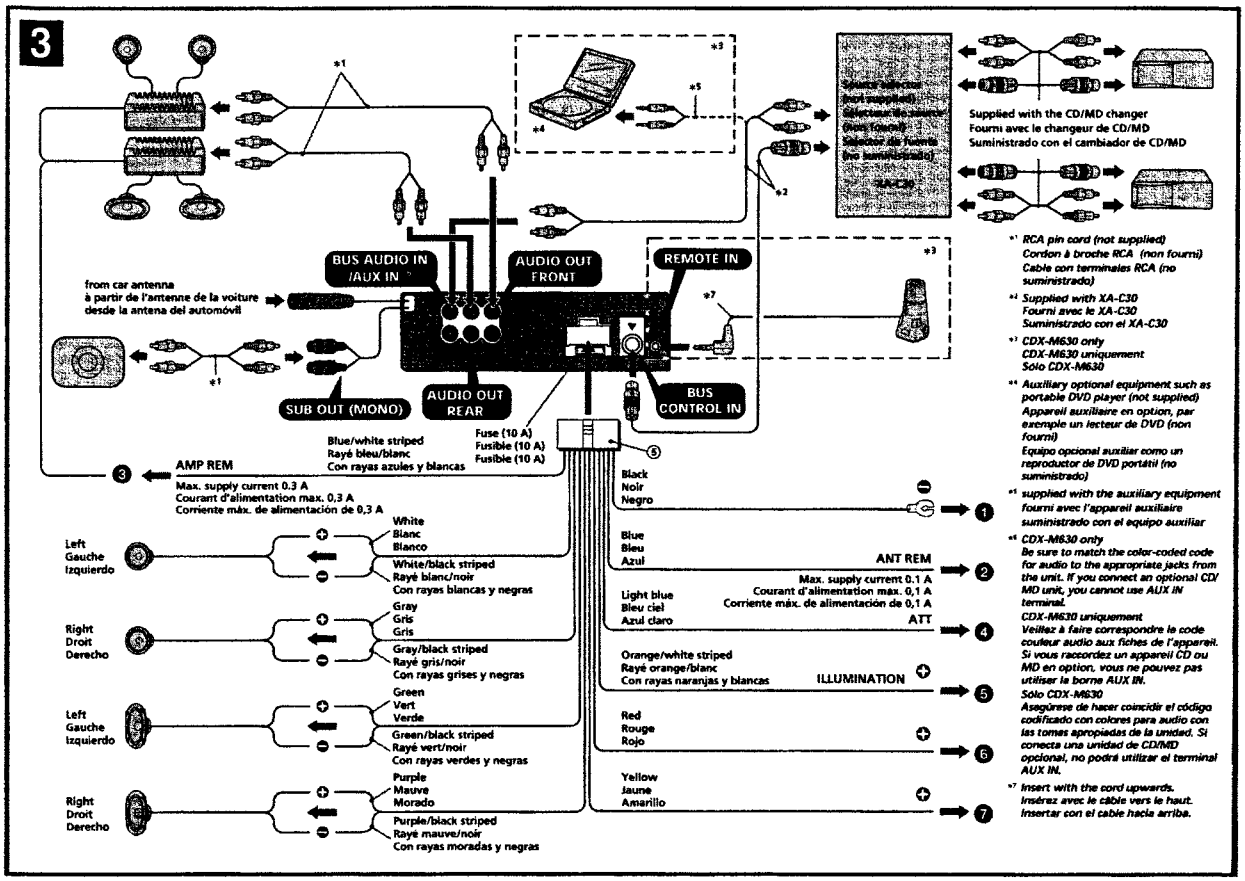
Ejemplo de conexiones (2)

Notas **(A)**
- *Asegúrese de conectar primero el cable de puesta a masa antes de realizar la conexión al amplificador.*
- *Si conecta un amplificador de potencia opcional y no utiliza el incorporado, los pitidos se desactivarán.*

Consejo **(B-a, b)**
Si desea conectar dos o más cambiadores de CD/MD, necesitará el selector de fuente XA-C30 (opcional).



Connections (US, Canadian Model)



Connection diagram (3)

❶ **To a metal surface of the car**
First connect the black ground lead, then connect the yellow and red power input leads.

❷ **To the power antenna control lead or power supply lead of antenna booster amplifier**

Notes
- *It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

❸ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ **To the interface cable of a car telephone**

❺ **To a car's illumination signal**
Be sure to connect the black ground lead to it first.

❻ **To the +12 V power terminal which is energized in the accessory position of the ignition key switch**

Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energised at all times.*
  Be sure to connect the black ground lead to it first.
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

❼ **To the +12 V power terminal which is energised at all times**
Be sure to connect the black ground lead to it first.

Notes on the control and power supply leads
- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM antenna in the rear/side glass, connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker cords to each other.*

Schéma de raccordement (3)

❶ **Vers un point métallique de la voiture**
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.

❷ **Vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne**

Remarques
- *Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir "Remarques sur les fils de commande et d'alimentation".*

❸ **Vers le connecteur AMP REMOTE IN de l'amplificateur de puissance en option**
Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.

❹ **Vers le cordon de liaison d'un téléphone de voiture**

❺ **Vers le connecteur du signal d'éclairage de la voiture**
Raccordez d'abord le fil de masse noir à ce connecteur.

❻ **Vers la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires**

Remarques
- *S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence.*
  Raccordez d'abord le fil de masse noir à cette borne.
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir "Remarques sur les fils de commande et d'alimentation".*

❼ **Vers la borne +12 V qui est alimentée en permanence**
Raccordez d'abord le fil de masse noir à cette borne.

Remarques sur les fils de commande et d'alimentation
- *Le fil de commande de l'antenne électrique (bleu) fournit une alimentation de + 12 V CC lorsque vous mettez l'appareil sous tension.*
- *Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez la sortie de commande de l'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Raccordement pour la conservation de la mémoire
Lorsque le fil d'entrée d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs
- *Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.*
- *Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de les endommager.*
- *Ne raccordez pas les bornes du système de haut-parleur au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne raccordez pas le câble de masse de cet appareil à la borne négative (–) de l'enceinte.*
- *N'essayez pas de raccorder les haut-parleurs en parallèle.*
- *Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.*
- *Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un fil négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

Diagrama de conexión (3)

❶ **A una superficie metálica del automóvil**
Conecte primero la conexión a masa negra, y después los cables amarillo y rojo de entrada de alimentación.

❷ **Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de la señal de la antena**

Notas
- *Si no se dispone de antena motorizada ni de amplificador de la señal de la antena o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❸ **Para conectar a AMP REMOTE IN del amplificador de potencia opcional**
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.

❹ **Al cable de interfaz de un teléfono para automóvil**

❺ **A una señal de iluminación del automóvil**
Asegúrese de conectar primero el cable de masa negro.

❻ **Al terminal de alimentación de +12 V que recibe energía en la posición de accesorios del interruptor de la llaé de encendido**

Notas
- *Si no hay posición de accesorios, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.*
  Asegúrese de conectar primero la conexión a masa negra.
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

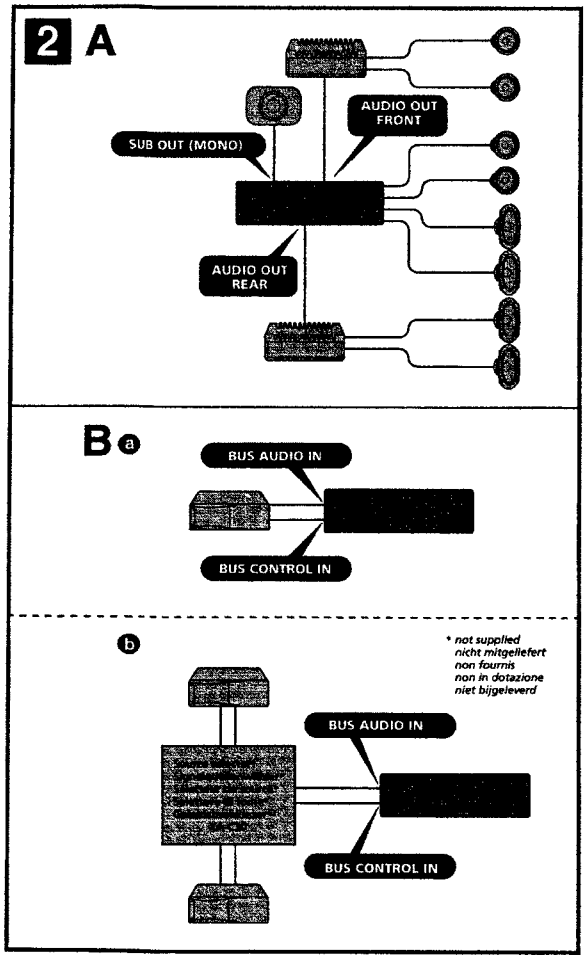
❼ **Al terminal de alimentación de +12 V que recibe energía sin interrupción**
Asegúrese de conectar primero la conexión a masa negra.

Notas sobre los cables de control y de fuente de alimentación
- *La conexión de control de la antena motorizada (azul) suministrará +cc 12 V cuando conecte la alimentación del sintonizador.*
- *Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero/lateral, conecte la conexión de control de antena motorizada (azul) o la conexión de entrada de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de la señal de la antena existente. Para obtener información detallada, consulte a su proveedor.*
- *Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.*

Conexión para protección de la memoria
Si conecta la conexión de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, aunque ponga la llave de encendido en la posición OFF.

Notas sobre la conexión de los altavoces
- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.*
- *No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del izquierdo.*
- *No conecte la conexión de puesta a tierra de esta unidad al terminal negativo (–) del altavoz.*
- *No intente conectar los altavoces en paralelo.*
- *Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.*
- *Para evitar fallos de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si su unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.*
- *No conecte los cables de altavoz de la unidad entre sí.*

Connection example (AEP, UK Model)



Connection example (2)

Notes (A)
- *Be sure to connect the earth cord before connecting the amplifier.*
- *If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.*

Tip (B- b)
For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

Anschlußbeispiel (2)

Hinweise (A)
- *Schließen Sie unbedingt zuerst das Massekabel an, bevor Sie den Verstärker anschließen.*
- *Wenn Sie einen gesondert erhältlichen Endverstärker anschließen und den integrierten Verstärker nicht benutzen, wird der Signalton deaktiviert.*

Tip (B- b)
Zum Anschließen von zwei oder mehr CD/MD-Wechslern wird der gesondert erhältliche Signalquellenwähler XA-C30 benötigt.

Exemple de raccordement (2)

Remarques (A)
- *Raccordez d'abord le fil de masse avant de raccorder l'amplificateur.*
- *Si vous raccordez un amplificateur de puissance indépendant et que vous n'utilisez pas l'amplificateur intégré, le bip sonore est désactivé.*

Conseil (B- b)
Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C30 (en option) est indispensable.

Esempi di collegamento (2)

Note (A)
- *Assicurarsi di collegare il cavo di terra prima di collegare l'apparecchio all'amplificatore.*
- *Se si collega un amplificatore di potenza opzionale e non si utilizza l'amplificatore incorporato, il segnale acustico verrà disattivato.*

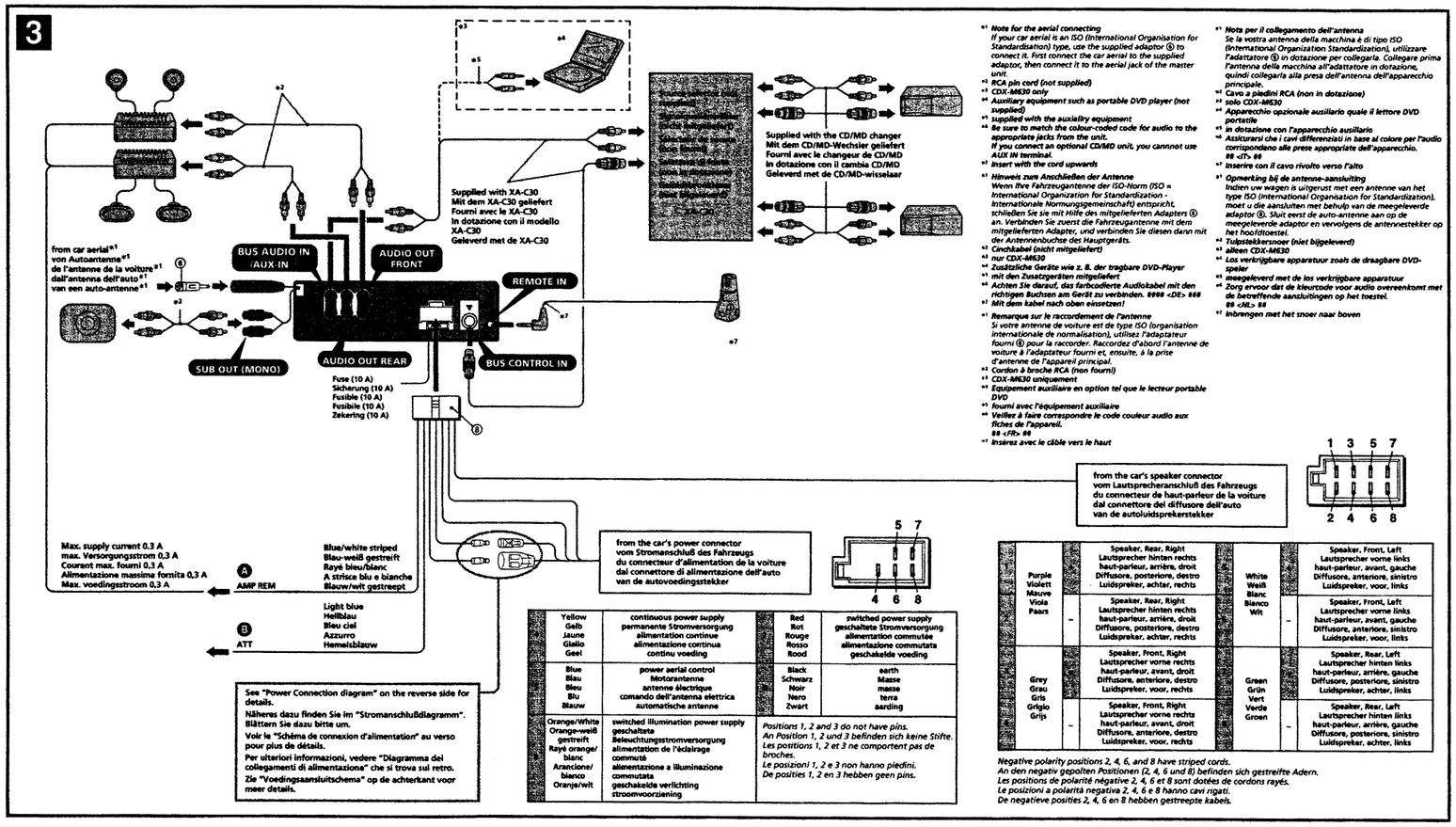
Suggerimento (B- b)
Per collegare due o più cambia CD/MD, si deve utilizzare il selettore di fonte XA-C30 (opzionale).

Voorbeeldaansluitingen (2)

Opmerkingen (A)
- *Sluit eerst de massakabel aan alvorens de versterker aan te sluiten.*
- *Als u een los verkrijgbare vermogensversterker aansluit en de ingebouwde versterker niet gebruikt, is de pieptoon uitgeschakeld.*

Tip (B- b)
Om twee of meer CD/MD-wisselaars aan te sluiten, hebt u de geluidsbronkiezer XA-C30 (optioneel) nodig.

Connections (AEP, UK Model)



*1 **Note for the aerial connecting**
If your car aerial is an ISO (International Organisation for Standardisation) type, use the supplied adaptor Ⓑ to connect it. First connect the car aerial to the supplied adaptor, then connect it to the aerial jack of the master unit.
*2 *RCA pin cord (not supplied)*
*3 *CDX-M630 only*
*4 *Auxiliary equipment such as portable DVD player (not supplied)*
*5 *supplied with the auxiliary equipment*
*6 *Be sure to match the colour-coded code for audio to the appropriate jacks from the unit.*
If you connect an optional CD/MD unit, you cannnot use AUX IN terminal.
*7 *Insert with the cord upwards*
*1 **Hinweis zum Anschließen der Antenne**
Wenn Ihre Fahrzeugantenne der ISO-Norm (ISO = International Organization for Standardization - Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mit Hilfe des mitgelieferten Adapters Ⓑ an. Verbinden Sie zuerst die Fahrzeugantenne mit dem mitgelieferten Adapter, und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.
*2 *Cinchkabel (nicht mitgeliefert)*
*3 *nur CDX-M630*
*4 *Zusätzliche Geräte wie z. B. der tragbare DVD-Player*
*5 *mit den Zusatzgeräten mitgeliefert*
*6 *Achten Sie darauf, das farbcodierte Audiokabel mit den richtigen Buchsen am Gerät zu verbinden. #### <DE> ###*
*7 *Mit dem kabel nach oben einsetzen!*
*1 **Remarque sur le raccordement de l'antenne**
Si votre antenne de voiture est de type ISO (organisation internationale de normalisation), utilisez l'adaptateur fourni Ⓑ pour la raccorder. Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.
*2 *Cordon à broche RCA (non fourni)*
*3 *CDX-M630 uniquement*
*4 *Equipement auxiliaire en option tel que le lecteur portable DVD*
*5 *fourni avec l'équipement auxiliaire*
*6 *Veillez à faire correspondre le code couleur audio aux fiches de l'appareil.*
<FR>
*7 *Insérez avec le câble vers le haut*
*1 **Nota per il collegamento dell'antenna**
Se la vostra antenna della macchina è di tipo ISO (International Organization Standardization), utilizzare l'adattatore Ⓑ in dotazione per collegarla. Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.
*2 *Cavo a piedini RCA (non in dotazione)*
*3 *solo CDX-M630*
*4 *Apparecchio opzionale ausiliario quale il lettore DVD portatile*
*5 *in dotazione con l'apparecchio ausiliario*
*6 *Assicurarsi che i cavi differenziati in base al colore per l'audio corrispondano alle prese appropriate dell'apparecchio.*
<IT>
*7 *Inserire con il cavo rivolto verso l'alto*
*1 **Opmerking bij de antenne-aansluiting**
Indien uw wagen is uitgerust met een antenne van het type ISO (International Organisation for Standardization), moet u die aansluiten met behulp van de meegeleverde adaptor Ⓑ. Sluit eerst de auto-antenne aan op de meegeleverde adaptor en vervolgens de antennestekker op het hoofdtoestel.
*2 *Tulpstekkersnoer (niet bijgeleverd)*
*3 *alleen CDX-M630*
*4 *Los verkrijgbare apparatuur zoals de draagbare DVD-speler*
*5 *meegeleverd met de los verkrijgbare apparatuur*
*6 *Zorg ervoor dat de kleurcode voor audio overeenkomt met de betreffende aansluitingen op het toestel.*
<NL>
*7 *Inbrengen met het snoer naar boven*

Yellow / Gelb / Jaune / Giallo / Geel	continuous power supply / permanente Stromversorgung / alimentation continue / alimentazione continua / continu voeding	Red / Rot / Rouge / Rosso / Rood	switched power supply / geschaltete Stromversorgung / alimentation commutée / alimentazione commutata / geschakelde voeding
Blue / Blau / Bleu / Blu / Blauw	power aerial control / Motorantenne / antenne électrique / comando dell'antenna elettrica / automatische antenne	Black / Schwarz / Noir / Nero / Zwart	earth / Masse / masse / terra / aarding
Orange/White / Orange-weiß gestreift / Rayé orange/blanc / Arancione/bianco / Oranje/wit	switched illumination power supply / geschaltete Beleuchtungsstromversorgung / alimentation de l'éclairage commuté / alimentazione a illuminazione commutata / geschakelde verlichting stroomvoorziening	*Positions 1, 2 and 3 do not have pins. An Position 1, 2 und 3 befinden sich keine Stifte. Les positions 1, 2 et 3 ne comportent pas de broches. Le posizioni 1, 2 e 3 non hanno piedini. De posities 1, 2 en 3 hebben geen pins.*	

Purple / Violett / Mauve / Viola / Paars	+	Speaker, Rear, Right / Lautsprecher hinten rechts / haut-parleur, arrière, droit / Diffusore, posteriore, destro / Luidspreker, achter, rechts	White / Weiß / Blanc / Bianco / Wit	+	Speaker, Front, Left / Lautsprecher vorne links / haut-parleur, avant, gauche / Diffusore, anteriore, sinistro / Luidspreker, voor, links
	–	Speaker, Rear, Right / Lautsprecher hinten rechts / haut-parleur, arrière, droit / Diffusore, posteriore, destro / Luidspreker, achter, rechts		–	Speaker, Front, Left / Lautsprecher vorne links / haut-parleur, avant, gauche / Diffusore, anteriore, sinistro / Luidspreker, voor, links
Grey / Grau / Gris / Grigio / Grijs	+	Speaker, Front, Right / Lautsprecher vorne rechts / haut-parleur, avant, droit / Diffusore, anteriore, destro / Luidspreker, voor, rechts	Green / Grün / Vert / Verde / Groen	+	Speaker, Rear, Left / Lautsprecher hinten links / haut-parleur, arrière, gauche / Diffusore, posteriore, sinistro / Luidspreker, achter, links
	–	Speaker, Front, Right / Lautsprecher vorne rechts / haut-parleur, avant, droit / Diffusore, anteriore, destro / Luidspreker, voor, rechts		–	Speaker, Rear, Left / Lautsprecher hinten links / haut-parleur, arrière, gauche / Diffusore, posteriore, sinistro / Luidspreker, achter, links

Negative polarity positions 2, 4, 6, and 8 have striped cords.
An den negativ gepolten Positionen (2, 4, 6 und 8) befinden sich gestreifte Adern.
Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.
De negatieve posities 2, 4, 6 en 8 hebben gestreepte kabels.

See "Power Connection diagram" on the reverse side for details.
Näheres dazu finden Sie im "Stromanschlußdiagramm". Blättern Sie dazu bitte um.
Voir le "Schéma de connexion d'alimentation" au verso pour plus de détails.
Per ulteriori informazioni, vedere "Diagramma dei collegamenti di alimentazione" che si trova sul retro.
Zie "Voedingsaansluitschema" op de achterkant voor meer details.

Connection diagram (3)

Ⓐ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

Ⓑ **To the interface cable of a car telephone**

Warning
If you have a power aerial without a relay box, connecting this unit with the supplied power connecting cord Ⓐ may damage the aerial.

Notes on the control leads
- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the AF (Alternative Frequency), TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW aerial in the rearside glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the earth lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker cords to each other.*

Anschlußdiagramm (3)

Ⓐ **An AMP REMOTE IN des gesondert erhältlichen Endverstärkers**
Dieser Anschluß ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an, Andernfalls kann das Gerät beschädigt werden.

Ⓑ **An Schnittstellenkabel eines Autotelefons**

Warnung
Wenn Sie eine Motorantenne ohne Relaiskästchen verwenden, kann durch Anschließen dieses Geräts mit dem mitgelieferten Stromversorgungskabel Ⓐ die Antenne beschädigt werden.

Hinweise zu den Steuerleitungen
- *Die Motorantennen-Steuerleitung (blau) liefert + 12 V Gleichstrom, wenn Sie den Tuner einschalten oder die AF- (Alternativfrequenzsuche) oder die TA-Funktion (Verkehrsdurchsagen) aktivieren.*
- *Wenn das Fahrzeug mit einer in der Heck-/Seitenfensterscheibe integrierten FM (UKW)/MW/LW-Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubehörstromversorgungsleitung (rot) an den Stromversorgungsanschluß des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei Ihrem Händler.*
- *Es kann nur eine Motorantenne mit Relaiskästchen angeschlossen werden.*

Stromversorgung des Speichers
Wenn das gelbe Stromversorgungskabel angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

Hinweise zum Lautsprecheranschluß
- *Schalten Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.*
- *Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Belastbarkeit. Ansonsten können die Lautsprecher beschädigt werden.*
- *Verbinden Sie die Lautsprecheranschlüsse nicht mit dem Wagenchassis, und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautsprechers.*
- *Verbinden Sie die Masseleitung dieses Geräts nicht mit dem negativen (–) Lautsprecheranschluß.*
- *Versuchen Sie nicht, Lautsprecher parallel anzuschließen.*
- *An die Lautsprecheranschlüsse dieses Geräts dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da diese sonst beschädigt werden können.*
- *Um Fehlfunktionen zu vermeiden, verwenden Sie nicht die im Fahrzeug installierten, integrierten Lautsprecherleitungen, wenn am Ende eine gemeinsame negative (–) Leitung für den rechten und den linken Lautsprecher verwendet wird.*
- *Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.*

Schéma de raccordement (3)

Ⓐ **Au niveau du AMP REMOTE IN d'un amplificateur de puissance facultatif**
Ce raccordement existe seulement pour les amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.

Ⓑ **Vers le cordon de liaison d'un téléphone de voiture**

Avertissement
Si vous disposez d'une antenne électrique sans boîtier de relais, le branchement de cet appareil au moyen du cordon d'alimentation fourni Ⓐ risque d'endommager l'antenne.

Remarques sur les fils de contrôle
- *Le fil de commande (bleu) de l'antenne électrique assure une alimentation de +12 V CC lorsque vous mettez le syntoniseur sous tension ou lorsque vous activez la fonction AF (fréquence secondaire) ou TA (informations routières).*
- *Lorsque votre voiture est équipée d'une antenne FM/MW/LW intégrée dans la vitre arrière/latérale, raccordez la sortie de commande de l'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) au bornier de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Raccordement pour la conservation de la mémoire
Lorsque le fil d'entrée d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs
- *Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.*
- *Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité de manipulation adéquate pour éviter de les endommager.*
- *Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne raccordez pas le câble de masse de cet appareil à la borne négative (–) de l'enceinte.*
- *N'essayez pas de raccorder les haut-parleurs en parallèle.*
- *Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.*
- *Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un fil négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

Schema di collegamento (3)

Ⓐ **A AMP REMOTE IN di un amplificatore di potenza opzionale**
Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.

Ⓑ **Al cavo interfaccia di un telefono per auto**

Avvertenza
Quando si collega l'apparecchio con il cavo di alimentazione in dotazione Ⓐ, si potrebbe danneggiare l'antenna elettrica se questa non ha la scatola di relè.

Note sul cavi di controllo
- *Il cavo di controllo dell'antenna elettrica (blu) fornisce corrente continua +12 V CC quando si accende il sintonizzatore o quando si attiva la funzione AF (frequenza alternativa) o TA (notiziario sul traffico).*
- *Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione opzionale al terminale di alimentazione del preamplificatore dell'antenna esistente. Per ulteriori informazioni, consultare il proprio fornitore.*
- *Non è possibile usare un'antenna elettrica senza scatola a relè con questo apparecchio.*

Collegamento per la conservazione della memoria
Quando il cavo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando la chiavetta a accensione è spenta.

Note sul collegamento dei diffusori
- *Prima di collegare i diffusori spegnere l'apparecchio.*
- *Usare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venir danneggiati.*
- *Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali del diffusore destro a quelli del diffusore sinistro.*
- *Non collegare il cavo di terra di questo apparecchio al terminale negativo (–) del diffusore.*
- *Non collegare i diffusori in parallelo.*
- *Non collegare alcun diffusore attivo (con amplificatore incorporato) ai terminali dei diffusori dell'apparecchio perché si potrebbero danneggiare i diffusori attivi. Assicurarsi di collegare diffusori passivi a questi terminali.*
- *Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporati installati nell'automobile se il terminale dell'apparecchio condivide un cavo comune negativo (–) per i diffusori destro e sinistro.*
- *Non collegare fra loro i cavi dei diffusori dell'apparecchio.*

Aansluitschema (3)

Ⓐ **Naar AMP REMOTE IN van een los verkrijgbare vermogensversterker**
Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het toestel worden beschadigd.

Ⓑ **Naar het interface-snoer van een autotelefoon**

Opgelet
Indien u een elektrische antenne heeft zonder relaiskast, kan het aansluiten van deze eenheid met het bijgeleverde netsnoer Ⓐ de antenne beschadigen.

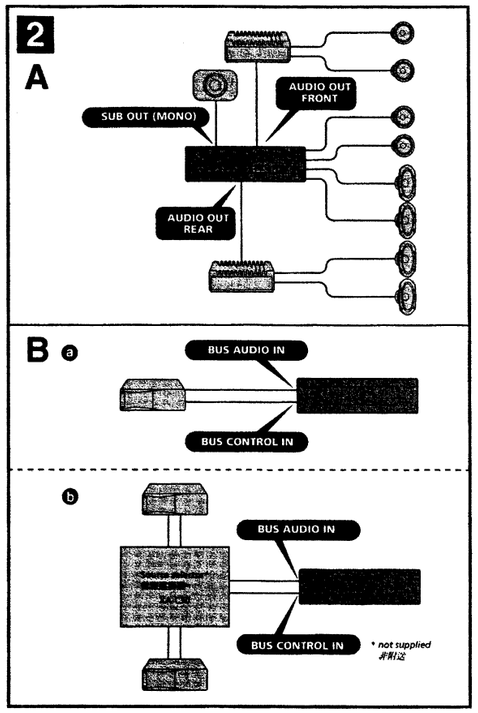
Opmerking betreffende de aansluitconnexies
- *De voedingskabel (blauw) van de elektrisch bediende antenne levert +12V gelijkstroom wanneer u de tuner aanschakelt of de functie AF (Alternative Frequency) of TA (Traffic Announcement) activeert.*
- *Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterruit/voorruit, moet u de antennevoedingskabel (blauw) of de hulpvoedingskabel (rood) aansluiten op de voedingsingang van de bestaande antennevesterker. Raadpleeg uw dealer voor meer details.*
- *Met dit apparaat is het niet mogelijk een automatische antenne zonder relaishuis te gebruiken.*

Instandhouden van het geheugen
Zolang de gele stroomdraad is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer het contact van de auto wordt uitgeschakeld.

Opmerkingen betreffende het aansluiten van de luidsprekers
- *Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.*
- *Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als dit wordt verzuimd, kunnen de luidsprekers ernstig beschadigd raken.*
- *Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter en linker luidspreker niet op elkaar aan.*
- *Verbind de massakabel van dit toestel niet met de negatieve (–) aansluiting van de luidspreker.*
- *Probeer nooit de luidsprekers parallel aan te sluiten.*
- *Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidspreker-aansluiting van dit apparaat. Dit zal leiden tot beschadiging van de actieve luidsprekers. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.*
- *Om defecten te vermijden mag u de bestaande luidsprekerbedrading in uw auto niet gebruiken wanneer er een gemeenschappelijke negatieve (–) draad is voor de rechter en linker luidsprekers.*
- *Verbind de luidsprekerdraden niet met elkaar.*

9

Connection example (E Model)



Connection example (2)

Notes (A)
- *Be sure to connect the earth cord before connecting the amplifier.*
- *If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.*

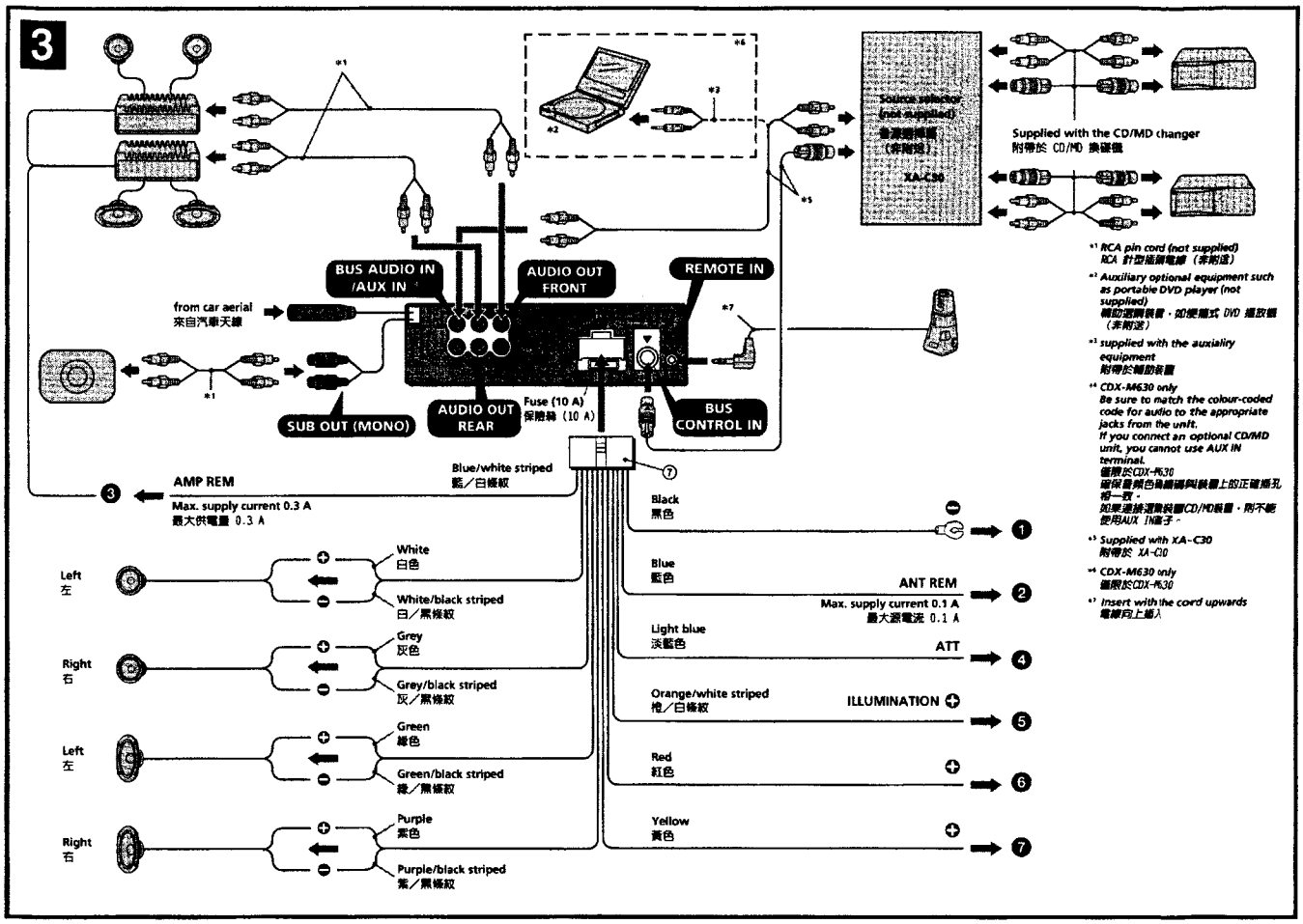
Tip (B-b)
For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

線路連接圖例（2）

註（A）
- *務必在接放大器之前連接地線。*
- *如果您連接了選購的功率放大器而不使用內裝的放大器，將無嗶聲功能。*

提醒（B-b）
若要連接 2 台或更多 CD/MD 換碟機時，必須使用音源選擇器 XA-C30（選購件）。

Connections (E Model)



Connection diagram (3)

❶ **To a metal surface of the car**
First connect the black earth lead, then connect the yellow and red power input leads.

❷ **To the power aerial control lead or power supply lead of aerial booster amplifier**
Notes
- *It is not necessary to connect this lead if there is no power aerial or aerial booster, or with a manually-operated telescopic aerial.*
- *When your car has a built-in FM/MW/LW aerial in the rear/side glass, see "Notes on the control and power supply leads."*

❸ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ **To the interface cable of a car telephone**

❺ **To a car's illumination signal**
Be sure to connect the black ground lead to it first.

❻ **To the +12 V power terminal which is energized in the accessory position of the ignition key switch**
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energised at all times.*
Be sure to connect the black earth lead to it first.
- *When your car has a built-in FM/MW/LW aerial in the rear/side glass, see "Notes on the control and power supply leads."*

❼ **To the +12 V power terminal which is energised at all times**
Be sure to connect the black earth lead to it first.

Notes on the control and power supply leads
- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the AF (Alternative Frequency), TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW aerial in the rear/side glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the earth lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker cords to each other.*

線路連接圖（3）

❶ 至汽車的金屬表面
首先連接黑色接地導線，然後再連接黃色和紅色電源輸入導線。

❷ 至電動天線控制導線或天線升壓放大器的電源導線
莊
- *如無電動天線，天線增壓器，或只有手動操作的套筒式天線，便不須連接此導線。*
- *您的汽車的後／側玻璃窗中如果內裝有 FM/MW/LW 天線，即請參看"控制和電源線須知"。*

❸ 至選購的功率放大器的 AMP REMOTE IN（放大器遙控輸入）
本連接僅用於放大器。連接任何其它系統可能會損壞本機。

❹ 至汽車電話的接口電纜

❺ 至汽車照明訊號
務請首先將黑色接地導線與其連接。

❻ 至在點火鑰匙的輔助位置上通電的 +12 V 電源端子
莊
- *若沒有輔助位置，即請連接至常時通電的 +12 V 電源（電池）端子。*
務請首先將黑色接地導線與其連接。
- *您的汽車的後／側玻璃窗中如果內裝有 FM/MW/LW 天線，即請參看"控制和電源線須知"。*

❼ 至隨時都通電的 +12 V 電源端子
務請首先將黑色接地導線與其連接。

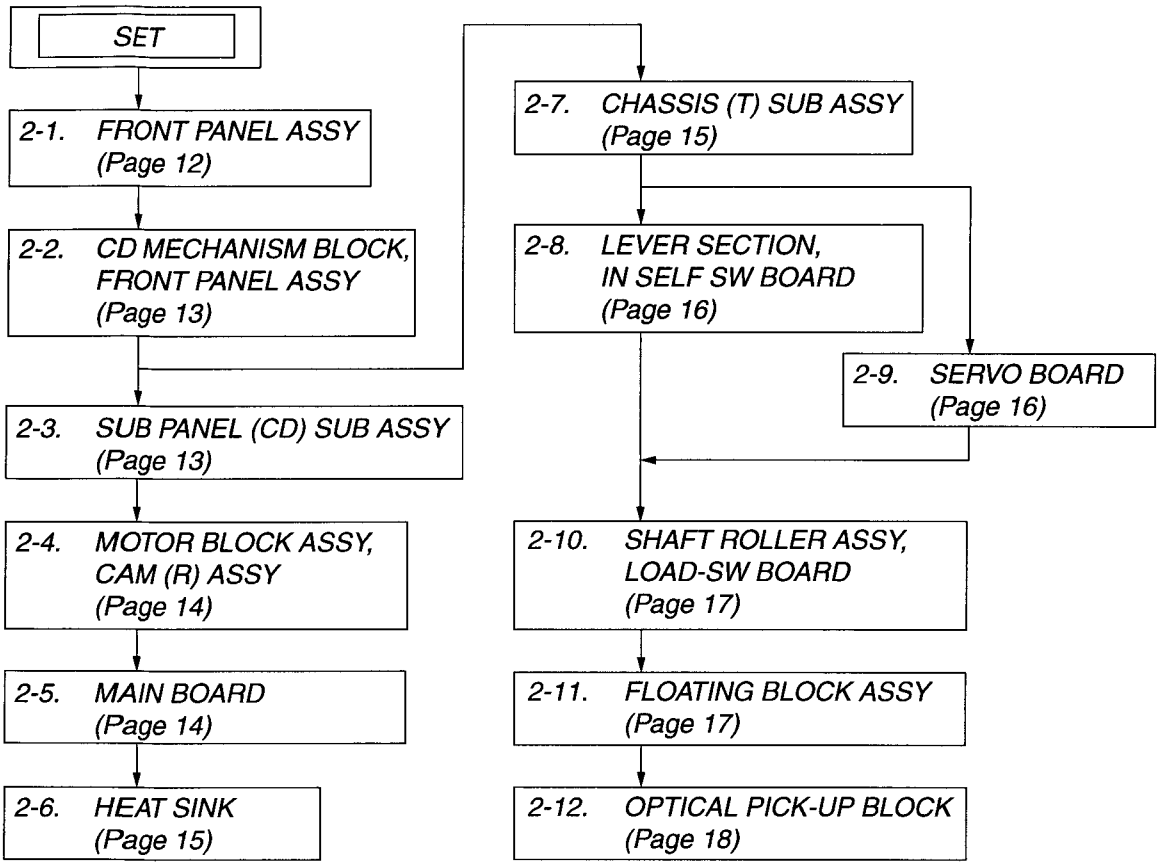
控制和電源線須知
- *當您打開調諧器或停動 AF（變換頻率）或 TA（交通公告）功能時，電動天線控制導線（藍色）提供 +12 V dc 流電。*
- *若您的汽車後／側玻璃窗上有內置 FM/MW/LW 天線，須將電動天線控制導線（藍色）或輔助電源輸入導線（紅色）連接到現有天線放大器上的電源端子上。詳細內容請向銷售商洽詢。*
- *本機不能使用不具備電源的電動天線。*

保持記憶的線路連接法
當連接到黃色電源輸入導線時，即使汽車發動機關閉，記憶電路仍然通電。

連接揚聲器時的注意事項
- *連接揚聲器電線以前，請先將本機電源。*
- *使用阻抗為 4–8Ω 且具有充分的容量的揚聲器，以免損壞揚聲器。*
- *不要將揚聲器端子連接到車底盤上，或將右揚聲器端子與左揚聲器端子相連接。*
- *切勿將本機的接地導線連接揚聲器的負(–)接線柱。*
- *揚聲器不可以並聯連接。*
- *請僅連接無源揚聲器。若將有源揚聲器（帶內置放大器）連接到揚聲器端子上，則會損壞本機。*
- *若本裝置使用左、右揚聲器共用了(–)極導線，為了避免故障，切勿使用已安裝在車內的內置揚聲器導線。*
- *請勿將本裝置揚聲器導線相連接。*

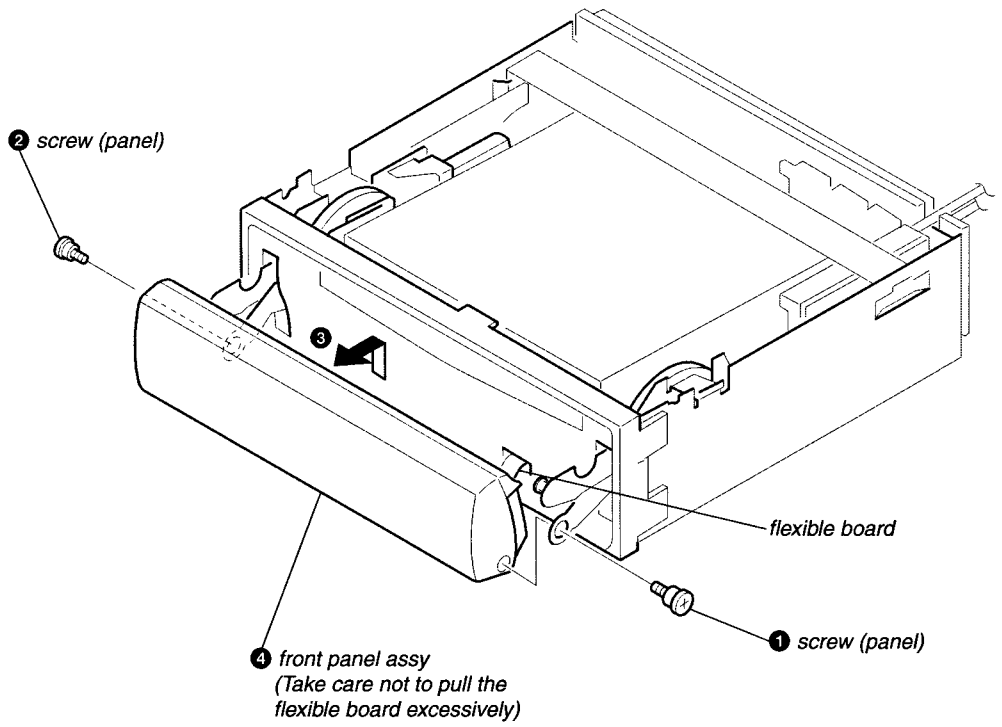
SECTION 2
DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

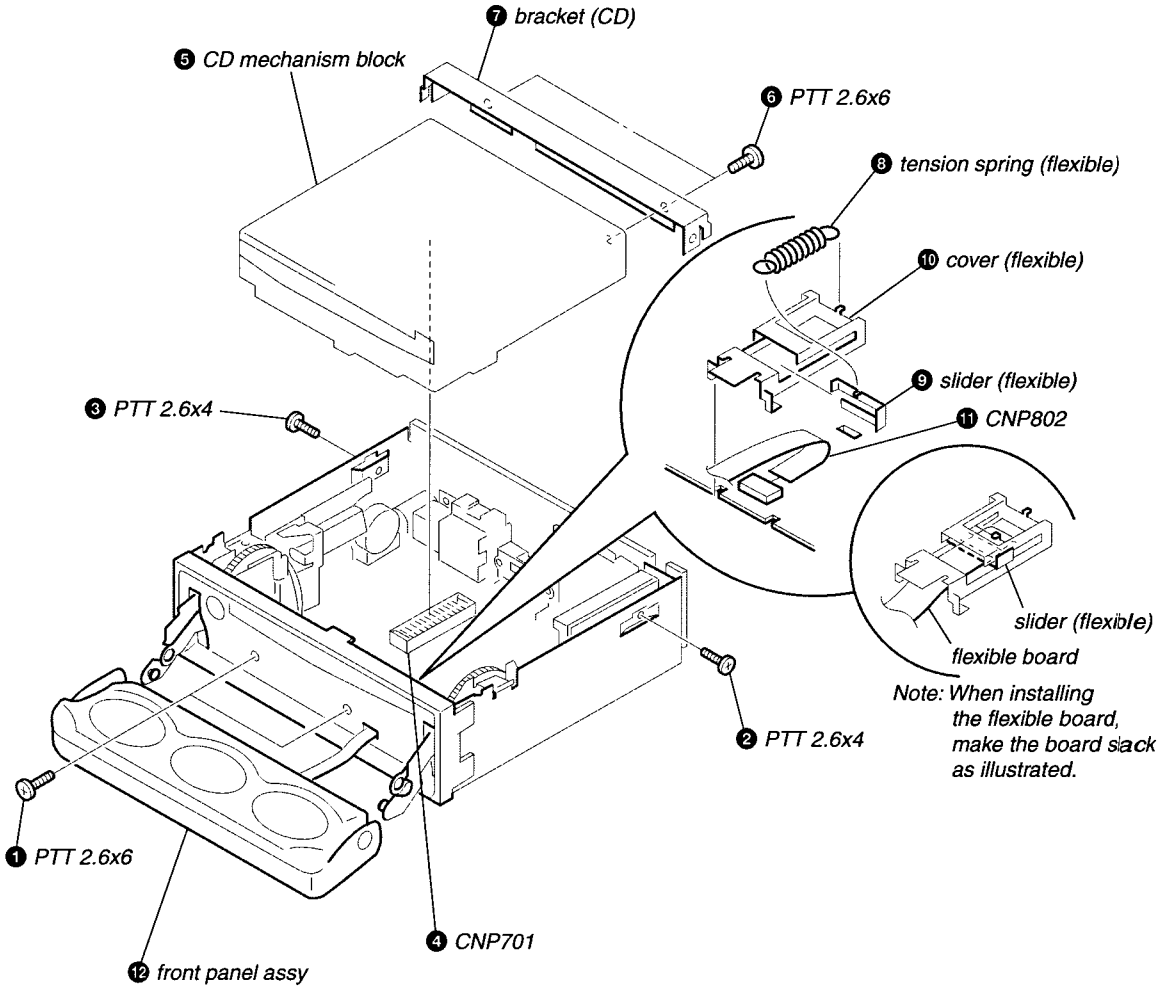

SET
2-1. FRONT PANEL ASSY (Page 12)
2-2. CD MECHANISM BLOCK, FRONT PANEL ASSY (Page 13)
2-3. SUB PANEL (CD) SUB ASSY (Page 13)
2-4. MOTOR BLOCK ASSY, CAM (R) ASSY (Page 14)
2-5. MAIN BOARD (Page 14)
2-6. HEAT SINK (Page 15)
2-7. CHASSIS (T) SUB ASSY (Page 15)
2-8. LEVER SECTION, IN SELF SW BOARD (Page 16)
2-9. SERVO BOARD (Page 16)
2-10. SHAFT ROLLER ASSY, LOAD-SW BOARD (Page 17)
2-11. FLOATING BLOCK ASSY (Page 17)
2-12. OPTICAL PICK-UP BLOCK (Page 18)

Note : Follow the disassembly procedure in the numerical order given.

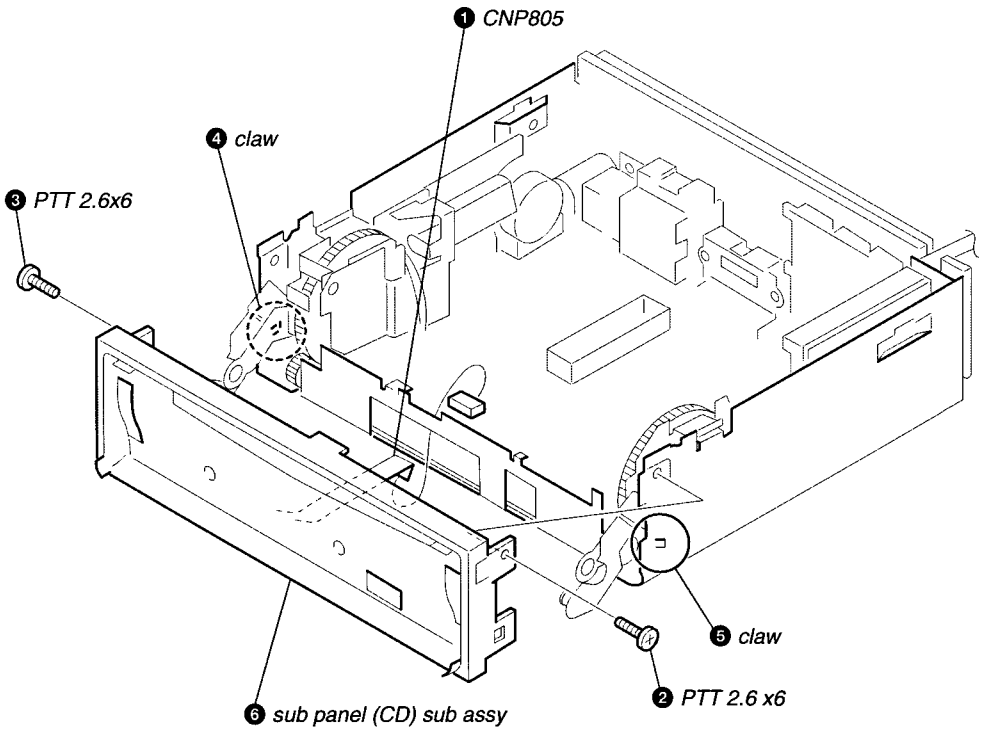
2-1. FRONT PANEL ASSY



2-2. CD MECHANISM BLOCK, FRONT PANEL ASSY

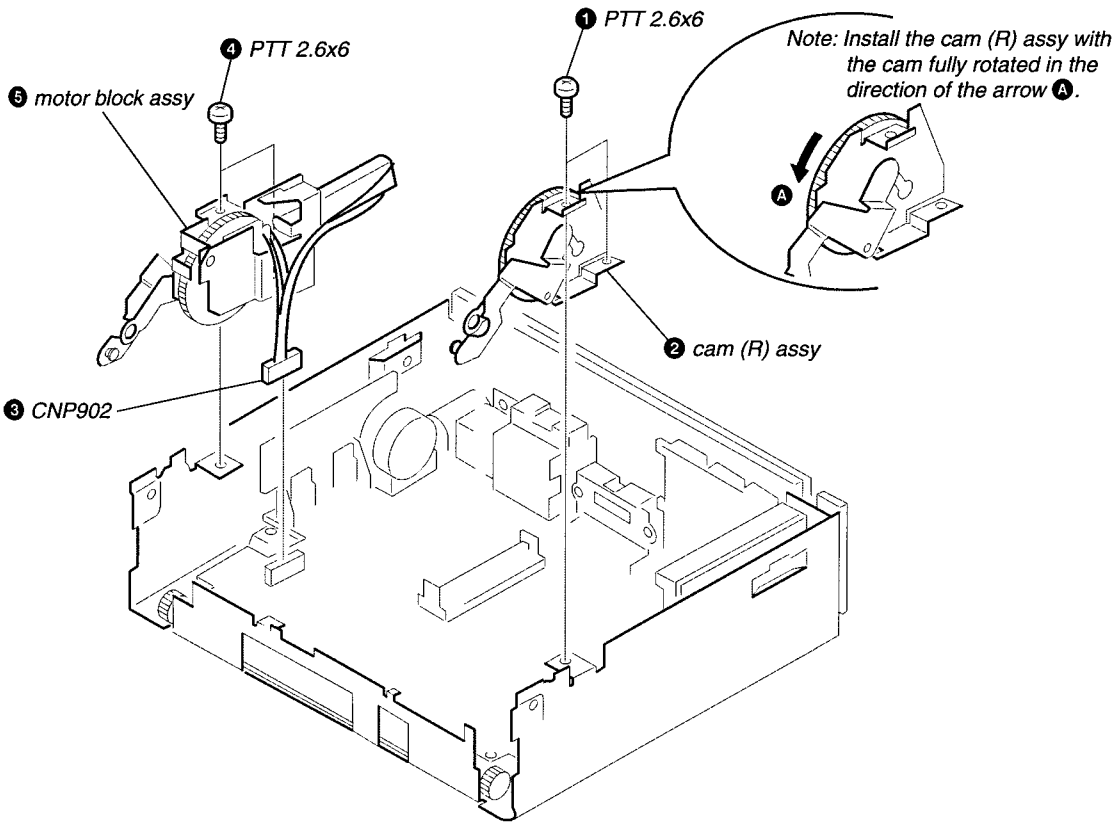


2-3. SUB PANEL (CD) SUB ASSY

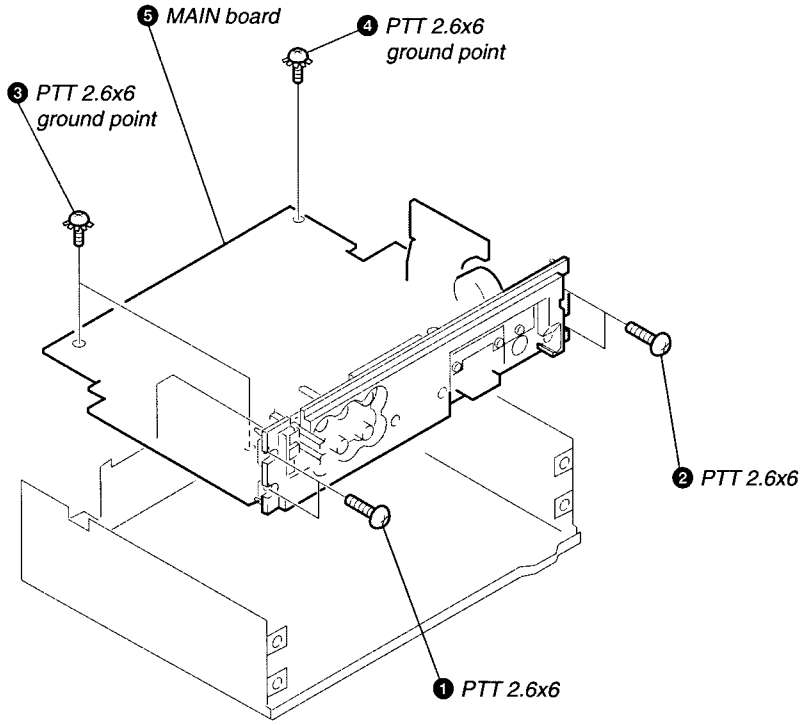


2-4. MOTOR BLOCK ASSY, CAM (R) ASSY

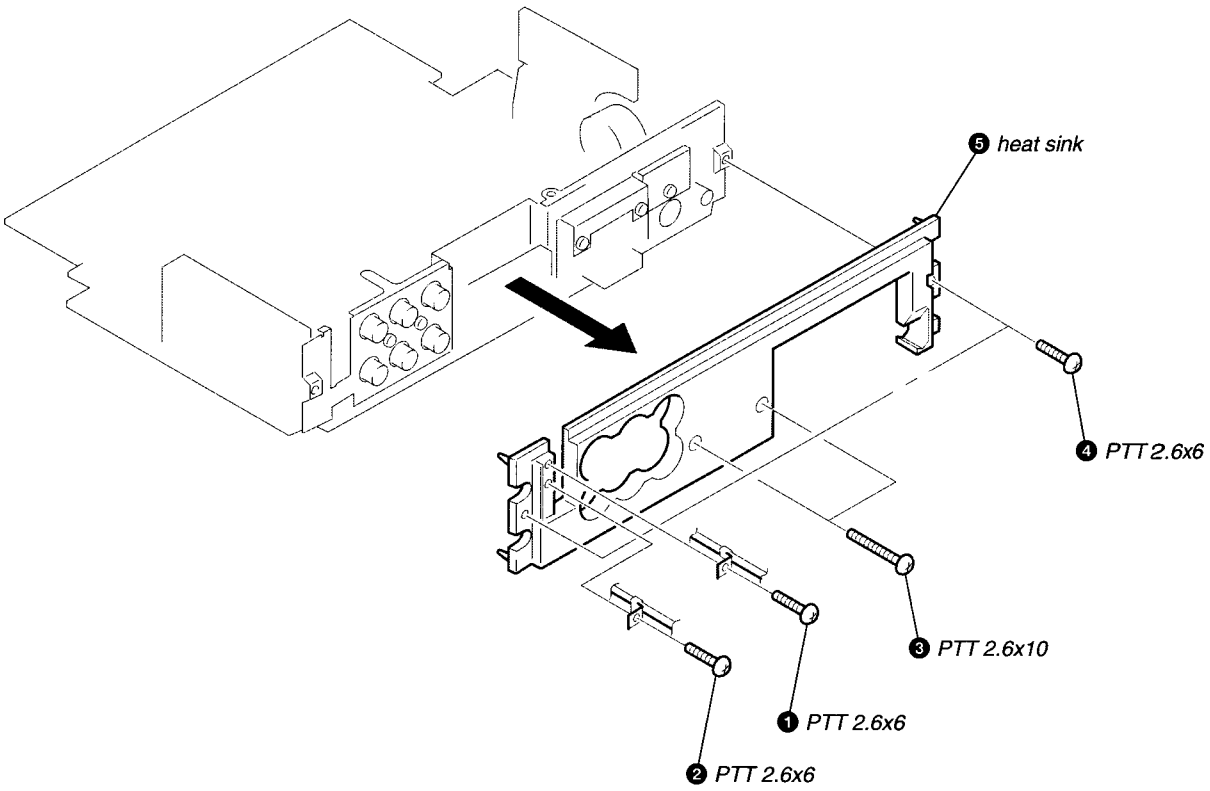
Note : Install the motor block assy and cam (R) assy in this roder.
For phase alignment between cams (L) and (R), see page 19 and 21.


❶ PTT 2.6x6
❹ PTT 2.6x6
❺ motor block assy
Note: Install the cam (R) assy with the cam fully rotated in the direction of the arrow Ⓐ.
Ⓐ
❷ cam (R) assy
❸ CNP902

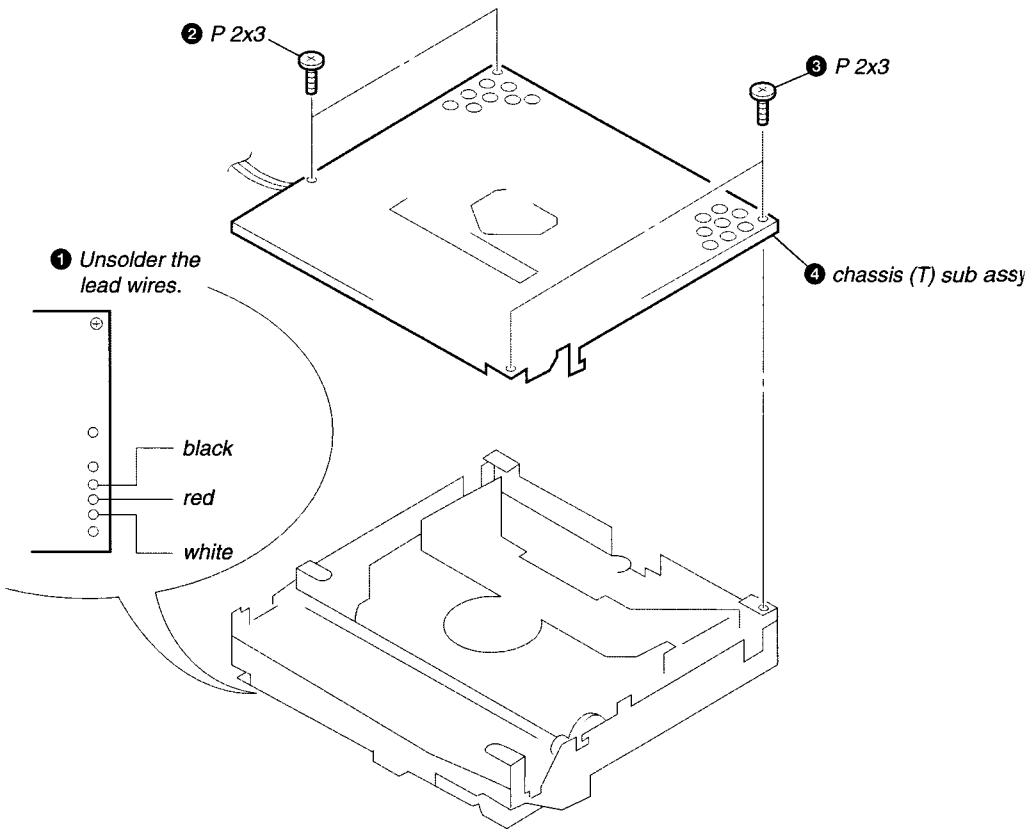
2-5. MAIN BOARD



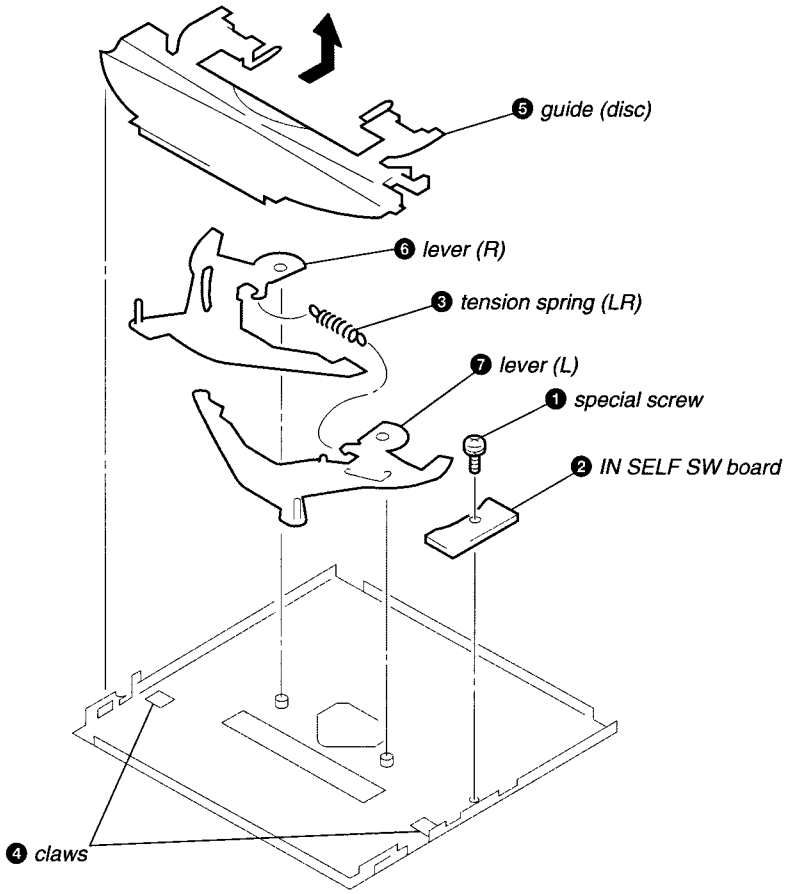
2-6. HEAT SINK



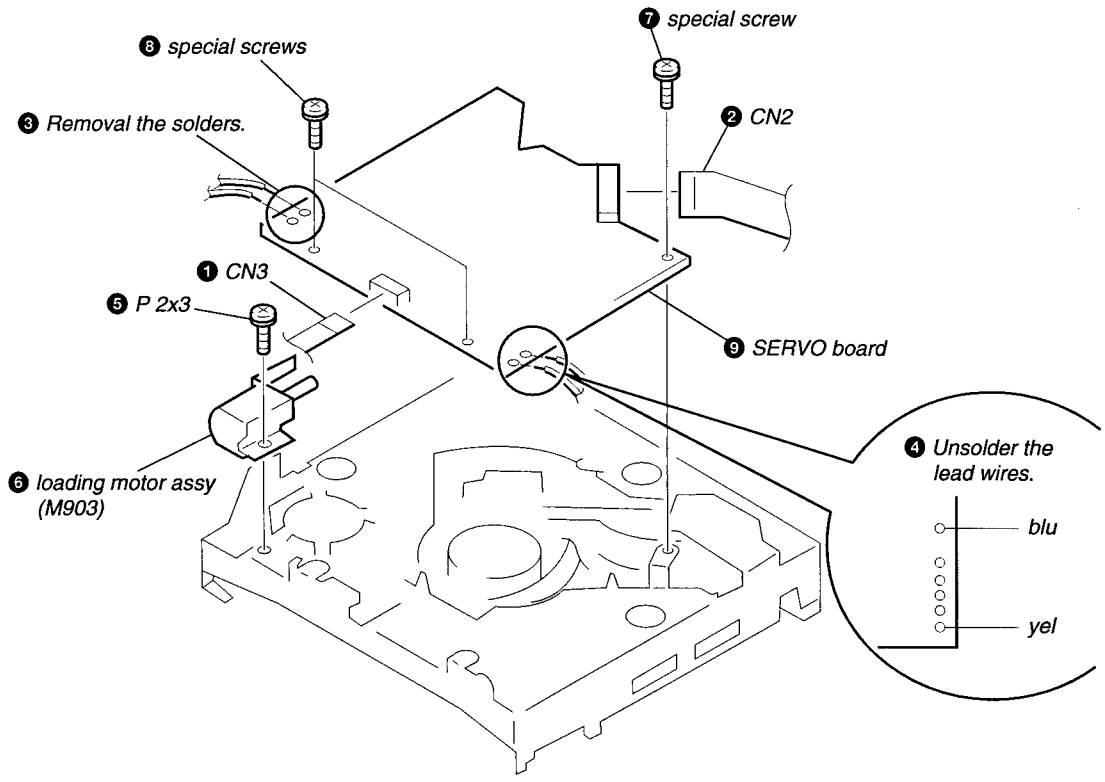
2-7. CHASSIS (T) SUB ASSY



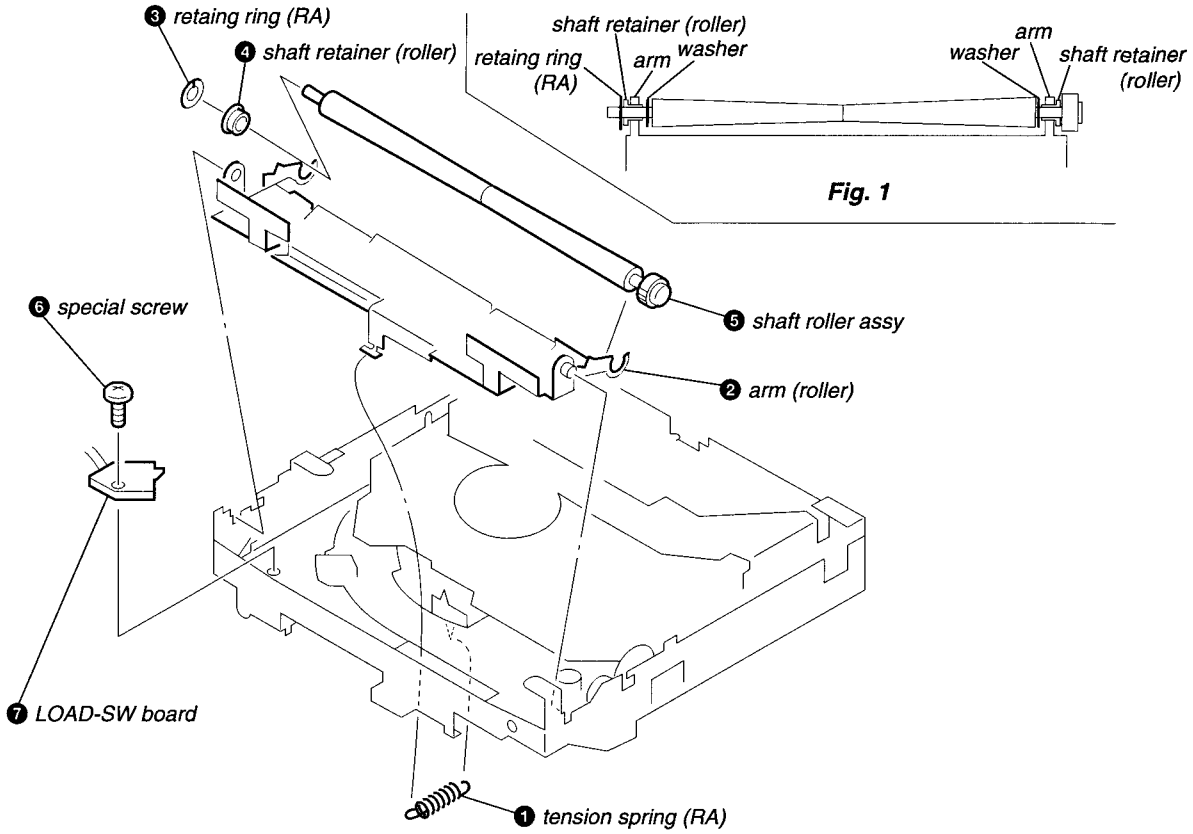
2-8. LEVER SECTION, IN SELF SW BOARD



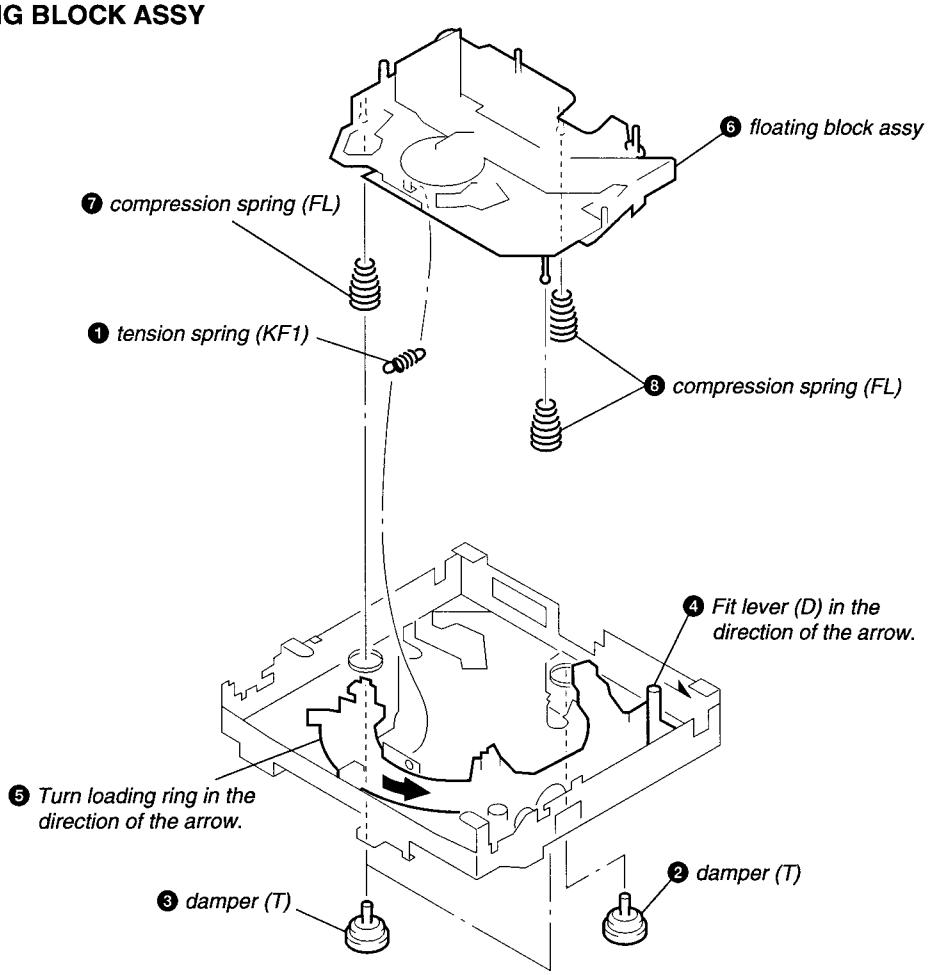
2-9. SERVO BOARD



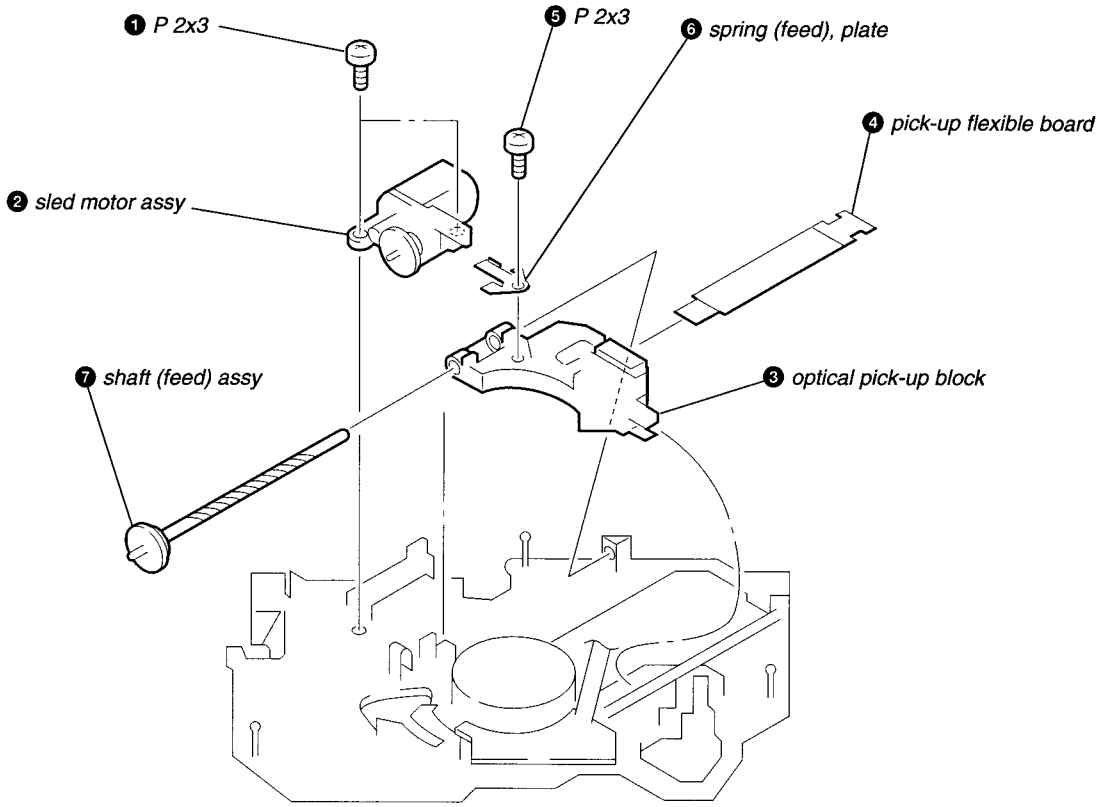
2-10. SHAFT ROLLER ASSY, LOAD-SW BOARD



2-11. FLOATING BLOCK ASSY

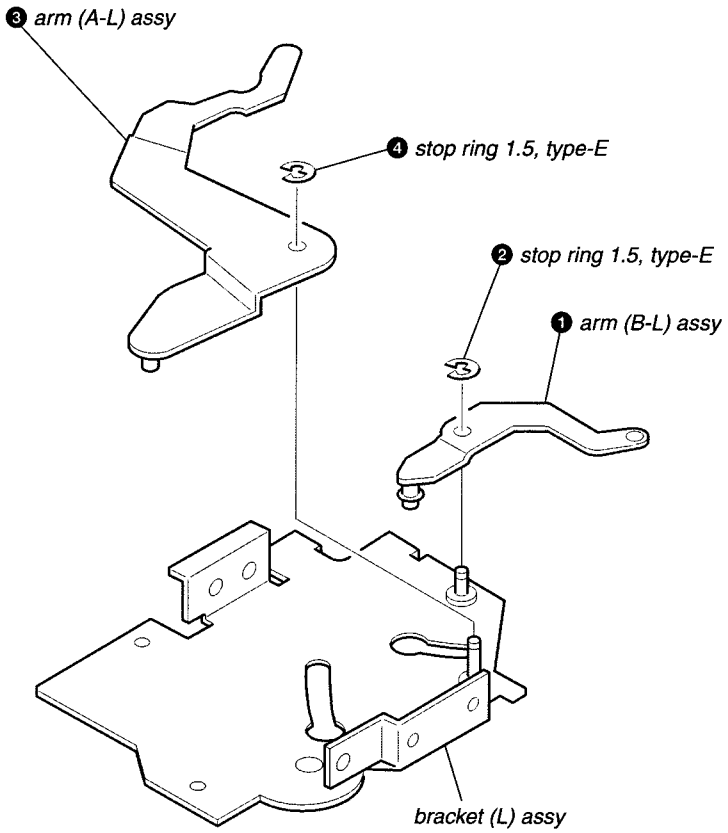

❻ floating block assy
❼ compression spring (FL)
❶ tension spring (KF1)
❽ compression spring (FL)
❹ Fit lever (D) in the direction of the arrow.
❺ Turn loading ring in the direction of the arrow.
❷ damper (T)
❸ damper (T)

2-12. OPTICAL PICK-UP BLOCK



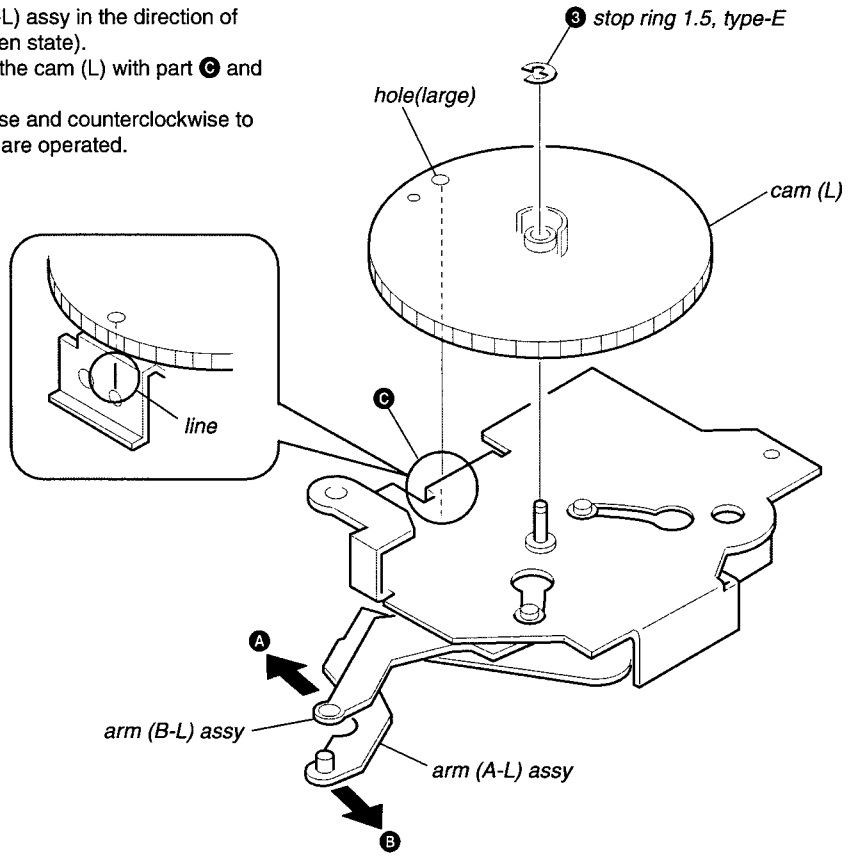
SECTION 3
PHASE ALIGNMENT

3-1. ARM (A-L) ASSY, ARM (B-L) ASSY



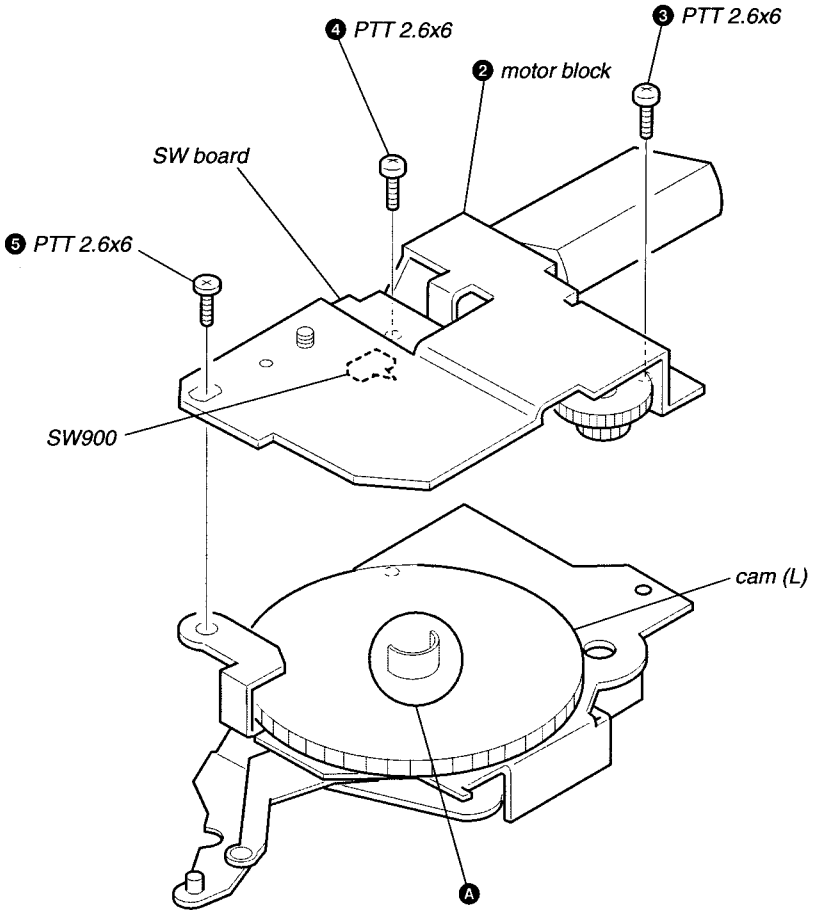
3-2. CAM (L)

❶ Move the arm (B-L) assy in the direction of the arrow Ⓐ and the arm (A-L) assy in the direction of the arrow Ⓑ fully (full open state).
❷ Align the hole (large) on the cam (L) with part Ⓒ and install the cam.
❹ Turn the cam (L) clockwise and counterclockwise to verify that both the arms are operated.



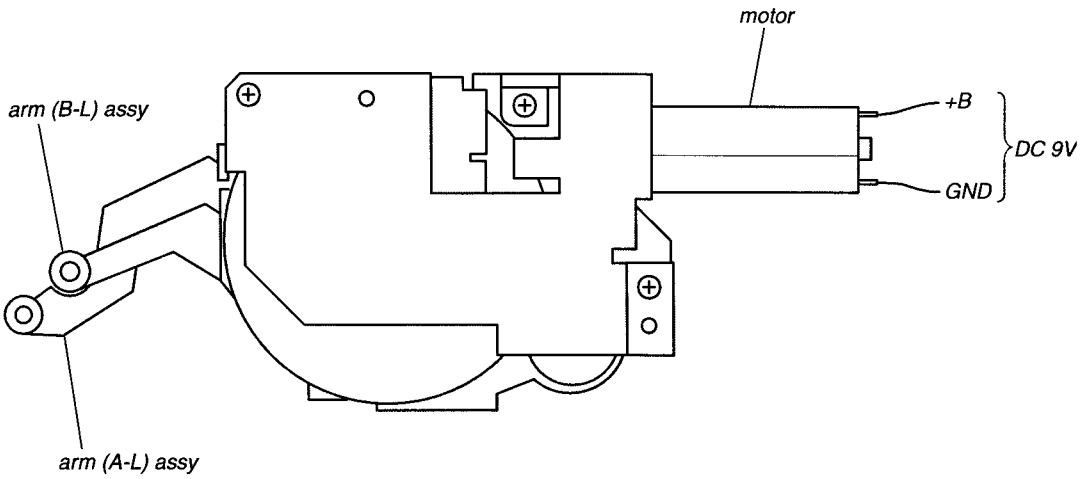
3-3. MOTOR BLOCK

❶ Turn the cam (L) and position the cam so that part Ⓐ does not touch the SW board SW900.

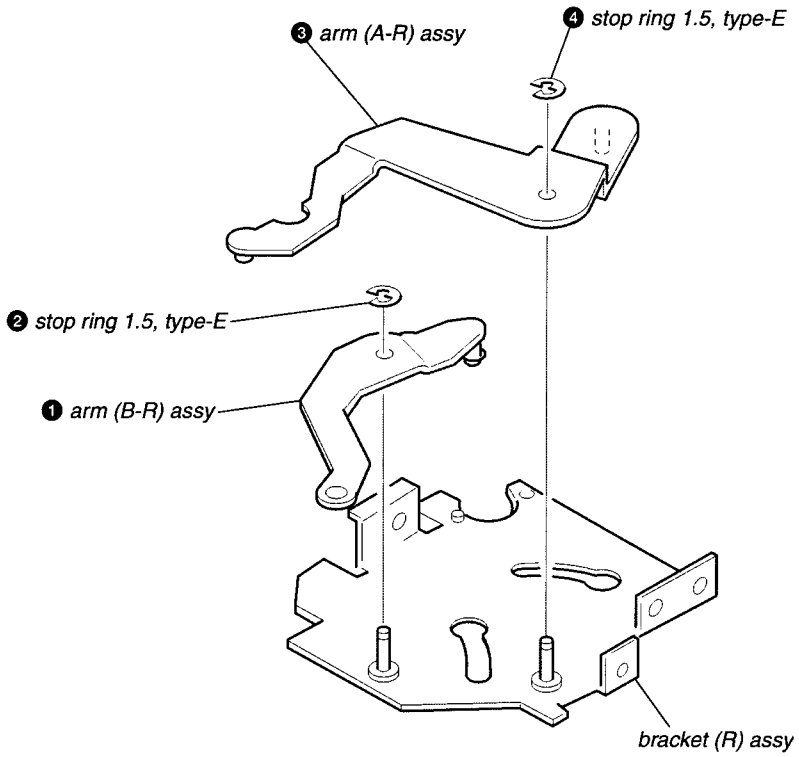


3-4. ALIGNMENT BETWEEN ARM (A-L) ASSY AND ARM (B-L) ASSY

❶ Input 9V DC to the motor terminal until the cam (L) stops rotating.
Take care to avoid overload of the motor.
❷ Verify that the arm (A-L) assy and arm (B-L) assy are positioned as shown below (full open).

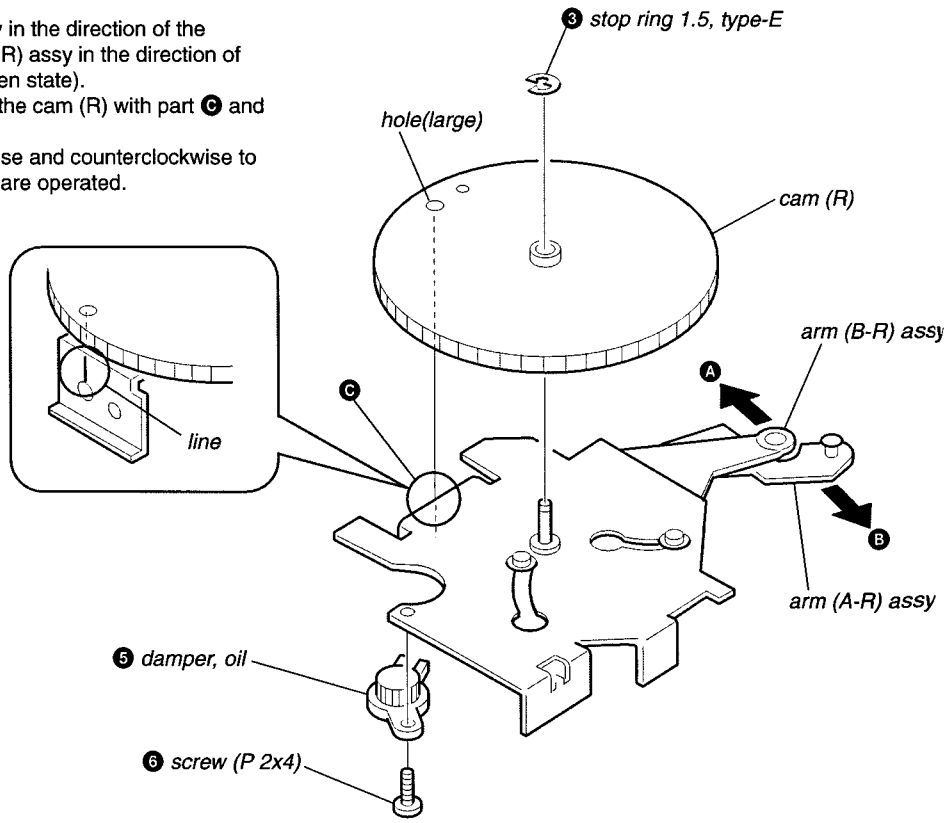


3-5. ARM (A-R) ASSY, ARM (B-R) ASSY



3-6. CAM (R)

❶ Move the arm (B-R) assy in the direction of the arrow Ⓐ and the arm (A-R) assy in the direction of the arrow Ⓑ fully (full open state).
❷ Align the hole (large) on the cam (R) with part Ⓒ and install the cam.
❹ Turn the cam (R) clockwise and counterclockwise to verify that both the arms are operated.



SECTION 4
DIAGRAMS

4-1. IC PIN DESCRIPTIONS

• IC801 MB90574CPMT-G-371-BNDE1 (SYSTEM CONTROL) (US, Canadian Model)

• IC801 MB90574CPMT-G-372-BNDE1 (SYSTEM CONTROL) (AEP, UK, E Model)

Pin No.	Pin Name	I/O	Pin Description
1	CD RESET	O	Servo CPU reset signal output to servo IC (IC1)
2	NCO	O	Not used. (Open)
3	A0	O	Servo CPU command/parameter discriminate signal output to servo IC (IC1)
4	NCO	O	Not used. (Open)
5	ATT	O	System mute control signal output
6	$\overline{\text{SYSRST}}$	O	System reset signal output to bus interface (IC802)
7	STB	O	Servo CPU data strobe signal output to servo IC (IC1)
8	VCC	—	Power supply pin (+5 V)
9	XTAL EN	O	Servo CPU crystal oscillator control signal output to servo IC (IC1)
10	E2PSIO	I/O	EEPROM data signal input/output with tuner unit (TU601)
11	E2PCKO	O	EEPROM clock signal output to tuner unit (TU601)
12	FLS SI	I	Flash write-in data signal input
13	FLS SO	O	Flash write-in data signal output
14	$\overline{\text{BUS ON}}$	O	BUS ON control signal output to sub system control (IC301)
15	BEEP	O	Beep signal output
16	TEL ATT	I	Telephone mute detect signal input
17	UNI SI	I	SONY BUS data signal input from bus interface (IC802)
18	UNI SO	O	SONY BUS data signal output to bus interface (IC802)
19	UNI CKO	O	SONY BUS clock signal output to bus interface (IC802) and sub system control (IC301)
20	LIMIT	I	CD limit SW signal input (SW4)
21	PH1	I	CD PH1 detect signal input Not used in this set. (Open)
22	DSW	I	CD disc SW detect signal input (SW5)
23	IN/PH2	I	CD IN SW/PH2 detect signal input (SW6)
24	SIRCS	I	Remote control data signal input from sircs interface (IC803)
25	CD TSI	I	Servo CPU serial data signal input from servo IC (IC1)
26	CD TSO	O	Servo CPU serial data signal output to servo IC (IC1)
27	CD TCK	O	Servo CPU serial clock signal output to servo IC (IC1)
28	RF OK	I	Servo CPU RFOK signal input from servo IC (IC1)
29	TSTB	O	Servo CPU CD TEXT strobe signal output to servo IC (IC1)
30	NCO	O	Not used. (Open)
31	$\overline{\text{VOL ATT}}$	O	Electronic volume mute signal output to electronic volume (IC305)
32	NCO	O	Not used. (Open)
33	VSS	—	Ground pin
34	C	—	Condenser pin for voltage stabilizer
35	SELF SW	I	CD self SW signal input (SW2)
36	PH3	I	CD PH3 detect signal input Not used in this set. (Open)
37	SHIFT	O	OSC frequency shift signal output for DC-DC converter (IC901)
38	DVCC	—	Power supply pin (+5 V)
39	DVSS	—	Ground pin
40	FP CTRL	O	Front panel open/close speed control signal output
41	NCO	O	Not used. (Open)
42	AVCC	—	Power supply pin (+5 V)
43	AVRH	—	Power supply pin (+5 V)
44	AVRL	—	Ground pin
45	AVSS	—	Ground pin
46	KEY IN0	I	Key signal input 0
47	KEY IN1	I	Key signal input 1
48	RC IN0	I	Rotary commander signal input 0
49	NCO	O	Not used. (Open)

Pin No.	Pin Name	I/O	Pin Description
50	QUALITY	I	Tuner noise detect signal input from electronic volume (IC305) (AEP, UK, E Model)
51	FM AGC	O	FM auto gain control signal output to tuner unit (TU601)
52	MPTH	I	Tuner multi-path signal input from RDS decoder (IC601) (AEP, UK, E model)
53	VSM	I	S-meter signal input from tuner unit (TU601)
54	VCC	—	Power supply pin (+5 V)
55	AMP ON	O	AMP ON control signal output to power amp (IC903)
56	NS MASK	O	Tuner nose masking signal output (AEP, UK, E model)
57	DDC ON	O	DC-DC converter control signal output
58	LOAD	O	CD loading motor control signal output to loading motor drive (IC2)
59	EJECT	O	CD eject motor control signal output to eject motor drive (IC2)
60	BUS/AUX	O	BUS/AUX audio ground select signal
61	$\overline{\text{OPEN KEY}}$	I	OPEN key signal input (LSW60)
62	$\overline{\text{NOSE SW}}$	I	Front panel attach/detach detect signal input
63	VSS	—	Ground pin
64	$\overline{\text{DETACH SW}}$	I	Front panel detach detect signal input
65	PWM	I	DC-DC converter OSC frequency count signal
66 to 68	NCO	O	Not used. (Open)
69	$\overline{\text{FLASH W}}$	I	Flash write-in mode detect signal input
70	I2C SIO	O	I2C serial data signal output
71	I2C CKO	O	I2C serial clock signal output
72	KEY ACK	I	Key acknowledge detect signal input
73	X1A	—	Crystal oscillator (32.768 kHz)
74	X0A	—	Crystal oscillator (32.768 kHz)
75	DAVN	I	RDS data block synchro detect signal input from RDS decoder (IC601) (AEP, UK, E model)
76	CD ON	O	CD mechanism power control signal output
77	BU IN	I	Back-up power supply detect signal input from bus interface (IC802)
78	CD PACK	I	Servo CPU CD TEXT PACK synchro signal input from servo IC (IC1)
79	RC IN1	I	Rotary commander signal input 1 from remote in jack (CNP803)
80	$\overline{\text{AD ON}}$	O	A/D converter power control signal output
81	$\overline{\text{ACC IN}}$	I	Accessory key ON signal input
82	FLSW PW ON	O	Flash write-in jig power control signal output
83	PW ON	O	System power control signal output
84	$\overline{\text{TEST IN}}$	I	Test mode setting detect signal input
85	RAM BU	I	RAM reset detect signal input
86	HSTX	I	Hardware standby setting input
87	MD2	I	Operation mode setting 2 input Connect to ground in this set.
88	MD1	I	Operation mode setting 1 input Connect to VDD in this set.
89	MD0	I	Operation mode setting 0 input Connect to VDD in this set.
90	RSTX	I	CPU reset input
91	VSS	—	Ground pin
92	X0	—	Crystal oscillator (3.68 MHz)
93	X1	—	Crystal oscillator (3.68 MHz)
94	VCC	—	Power supply pin (+5 V)
95	$\overline{\text{ILL IN}}$	I	Illumination line detect signal input
96	$\overline{\text{I DET}}$	I	Front panel current detect signal input
97	MOT –	O	Front panel open/close motor control signal output to motor drive (IC307)
98	MOT +	O	Front panel open/close motor control signal output to motor drive (IC307)
99	CLOSW SW	I	Front panel close detect signal input (SW900)
100	OPEN SW	I	Front panel open detect signal input (SW900)
101	CENTER SW	I	Front panel center position detect signal input
102	MODEL SEL	I	Fix/Detach model select setting signal input
103	NCO	O	Not used. (Open)

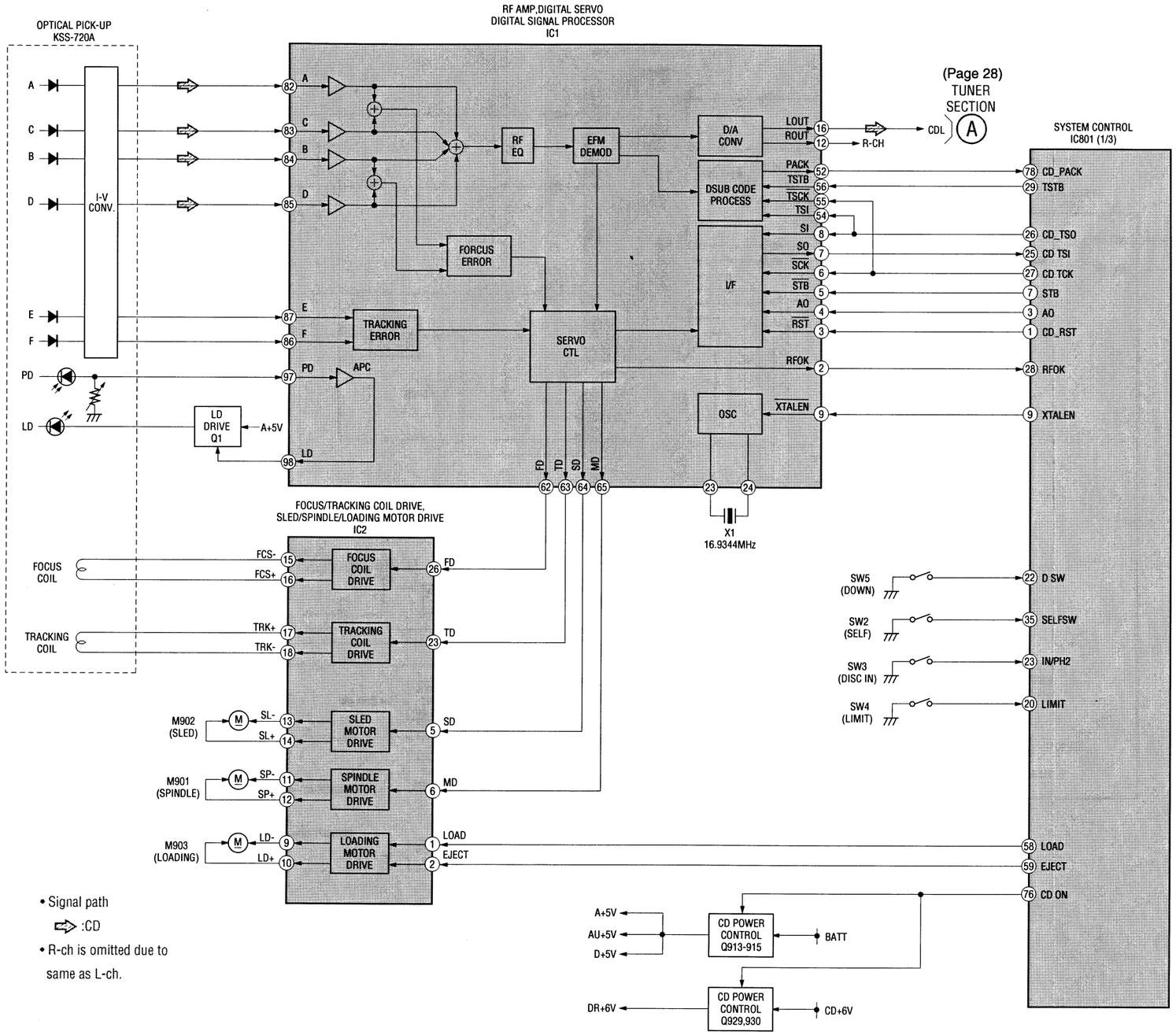
Pin No.	Pin Name	I/O	Pin Description
104	DST SEL1	I	Destination select 1 signal input
105	DST SEL2	I	Destination select 2 signal input
106	$\overline{\text{BOOT}}$	O	Display CPU write-in control signal output to sub system control (IC301)
107	S CODE1	I	Security code setting 1 signal input
108	S CODE2	I	Security code setting 2 signal input
109	S CODE3	I	Security code setting 3 signal input
110	S CODE4	I	Security code setting 4 signal input
111	CDM ON	O	CD mechanism power voltage control signal output
112	NCO	O	Not used. (Open)
113	NCO	O	Not used. (Connect to ground.)
114	TUN ON	O	Tuner ON control signal output
115	LED SW1	O	Front panel illumination control signal output to sub system control (IC301)
116	LED SW2	O	Control panel illumination control signal output to sub system control (IC301)
117	ADSO1	O	ADSO signal output 1 to ADSO SWITCH (IC407)
118	ADSO2	O	ADSO signal output 2 to ADSO SWITCH (IC407)
119	VSS	—	Ground pin
120	NCO	O	Not used. (Open)

• **IC301 HD6432398A03FW (SUB SYSTEM CONTROL)**

Pin No.	Pin Name	I/O	Pin Description
1	SA CLK	O	Spectrum analyzer clock signal output to electronic volume (IC305)
2	NCO	O	Not used. (Open)
3	VSS	—	Ground pin
4	NC	—	Not used. (Open)
5	VCC	—	Power supply pin (+5 V)
6 to 9	NCO	O	Not used. (Open)
10	VSS	—	Ground pin
11 to 18	NCO	O	Not used. (Open)
19	VSS	—	Ground pin
20 to 27	NCO	O	Not used. (Open)
28	VSS	—	Ground pin
29 to 31	NCO	O	Not used. (Open)
32	SA EN	I	Spectrum analyzer enable signal input from system control (IC801)
33	NCO	O	Not used. (Open)
34	BU IN	I	Back-up voltage detect signal input from bus interface (IC802)
35, 36	VSS	—	Ground pin
37	NCO	O	Not used. (Open)
38	BUS ON	I	BUS ON signal input from system control (IC801)
39	VCC	—	Power supply pin (+5 V)
40 to 43	NCO	O	Not used. (Open)
44	VSS	—	Ground pin
45	NCO	O	Not used.
46	LED SW1	I	Illumination select control 1 signal input from system control (IC801)
47	LED SW2	I	Illumination select control 2 signal input from system control (IC801)
48, 49	NCO	O	Not used. (Open)
50	LINK OFF	O	LINK OFF signal output
51	NCO	O	Not used. (Open)
52	ILL ON	O	Illumination control signal output
53	VSS	—	Ground pin
54 to 56	NCO	O	Not used. (Open)
57	$\overline{\text{BOOT}}$	I	Display CPU write-in control signal input from system control (IC801)
58	VCC	—	Power supply pin (+5 V)
59	NCO	O	Not used. (Open)
60	TX/LCD SO	O	LCD data output/UART signal output
61	NCO	O	Not used.
62	RX	I	UART signal input
63	NCO	O	Not used.
64	LCD CKO	O	LCD clock signal output to LCD driver (IC1 and 2)
65	VSS	—	Ground pin
66	LCD CE0	O	LCD driver chip enable 1 signal output to LCD driver (IC2)
67, 68	VSS	—	Ground pin
69	$\overline{\text{LCD INH}}$	O	LCD driver inhibit signal output to LCD driver (IC1 and 2)
70	LCD CE1	O	LCD driver chip enable 2 output to LCD driver (IC1)
71	LCD CE2	O	LCD driver chip enable 3 output to LCD driver
72 to 78	NCO	O	Not used. (Open)
79	FL W	O	Not used. (Open)
80	VCL	I	Connecting to ground through a capacitor. Not used in this set. (Open)
81	$\overline{\text{RES}}$	I	Reset signal input
82	NMI (H)	I	Non maskable interrupt signal input
83	$\overline{\text{ST/SY (H)}}$	I	Stanby mode signal input
84	VCC	—	Power supply pin (+5 V)
85	XTAL	—	Crystal oscillator (18.43 MHz)

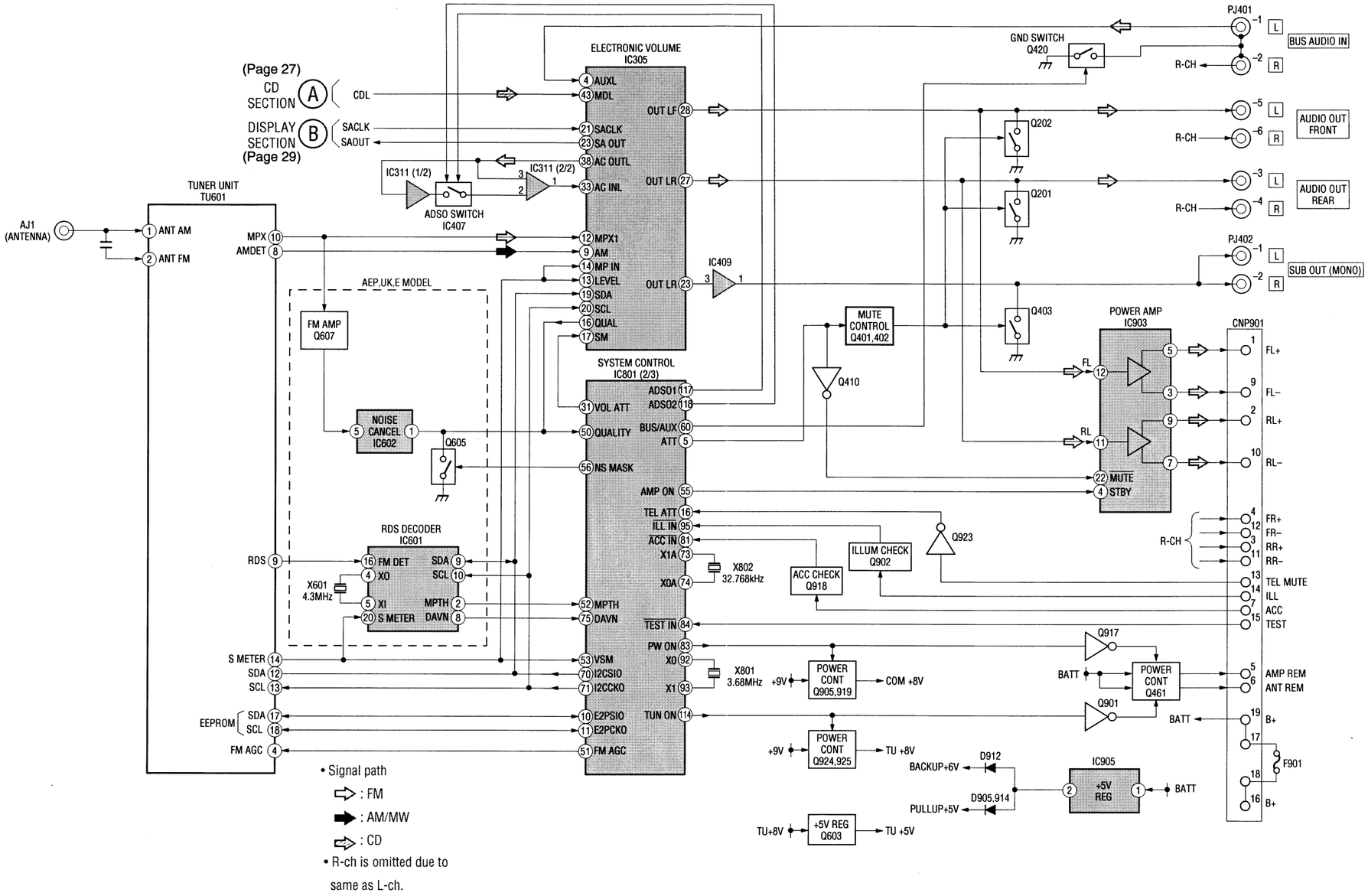
Pin No.	Pin Name	I/O	Pin Description
86	EXTAL	—	Crystal oscillator (18.43 MHz)
87	VSS	—	Ground pin
88	PF7	O	Not used. (Open)
89	VCC	—	Power supply pin (+5 V)
90 to 96	NCO	O	Not used. (Open)
97	UNI SO	O	Bus data signal output to bus interface (IC802)
98	UNI SI	I	Bus data signal input from bus interface (IC802)
99	VSS	—	Ground pin
100	VSS	—	Ground pin
101	UNI SCK	I	Bus clock signal input from system control (IC801)
102	P53	O	Not used. (Open)
103	AVCC	—	Power supply pin (+5 V)
104	VREF	—	Reference voltage (+5 V)
105 to 111	NIL	I	Connect to ground in this set.
112	SA IN	I	SA data signal input from electronic volume (IC305)
113	AVSS	—	Ground pin
114	VSS	—	Ground pin
115 to 122	NCO	O	Not used. (Open)
123	MD0 (H)	—	Mode pin
124	MD1 (H)	—	Mode pin
125	MD2 (H)	—	Mode pin
126 to 128	NCO	O	Not used. (Open)

4-2. BLOCK DIAGRAM — CD SECTION —

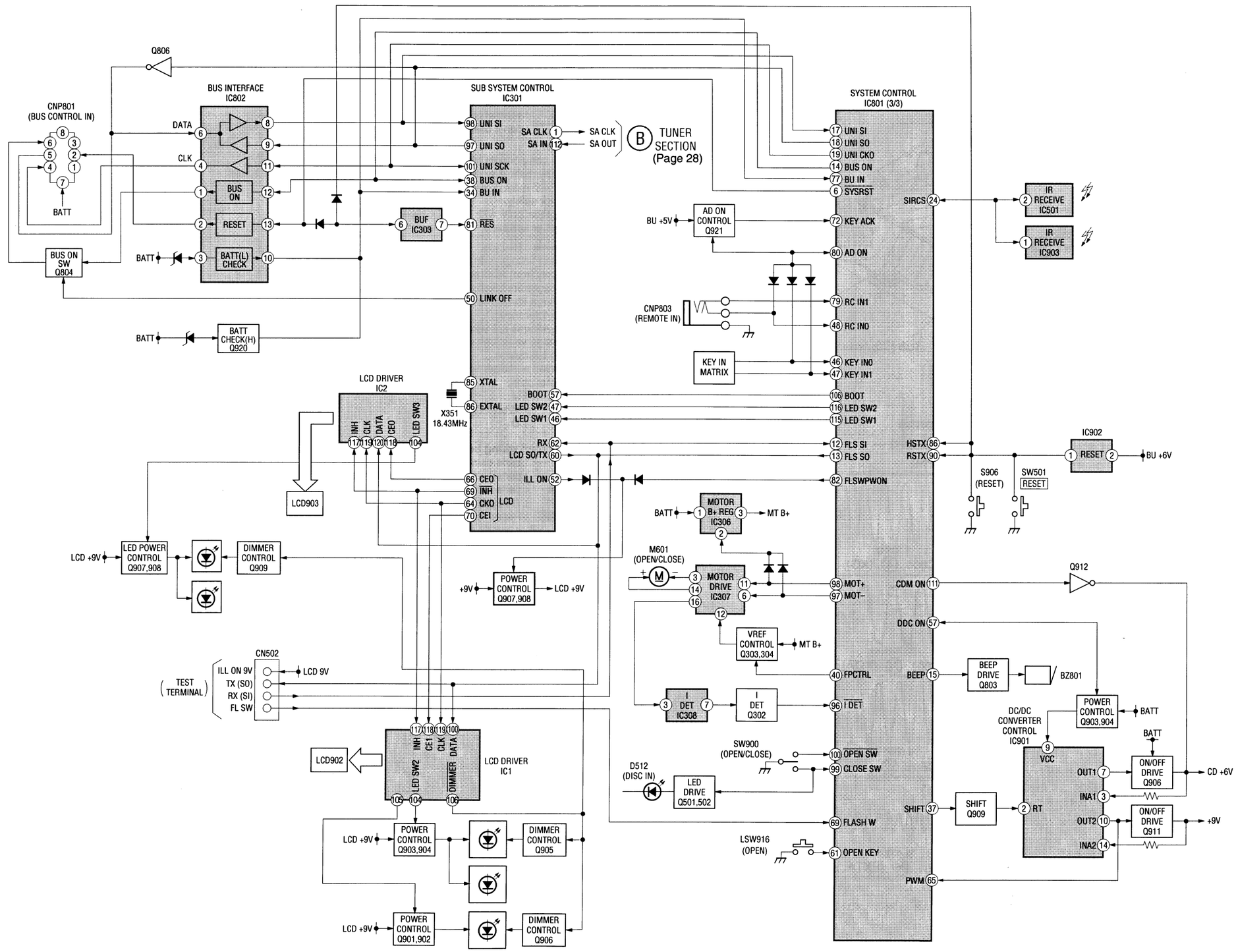


• Signal path
⇨ :CD
• R-ch is omitted due to same as L-ch.

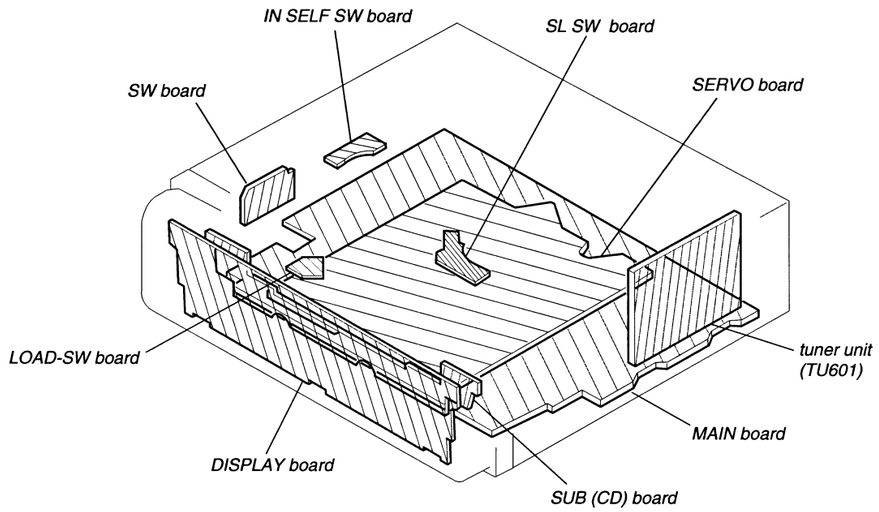
4-3. BLOCK DIAGRAM — TUNER SECTION —



4-4. BLOCK DIAGRAM — DISPLAY SECTION —



4-5. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- Δ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

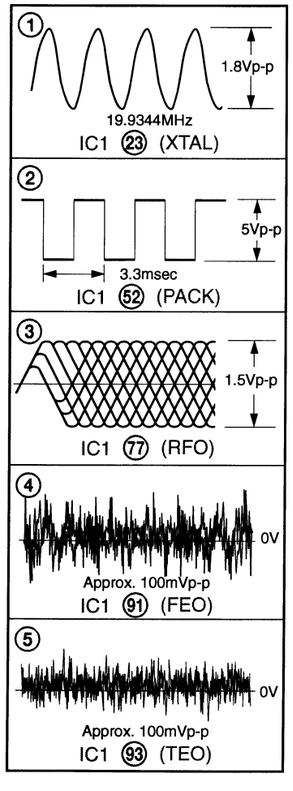
- ▬▬ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM/MW/LW
  ⇨ : CD

for printed wiring boards:

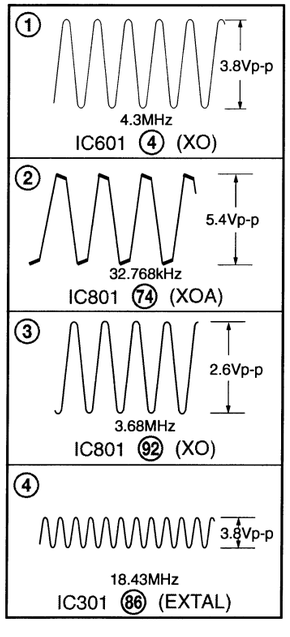
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ○ : Through hole.
- ▒▒ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

• Waveforms
— Servo Board —
(MODE: CD PLAY)



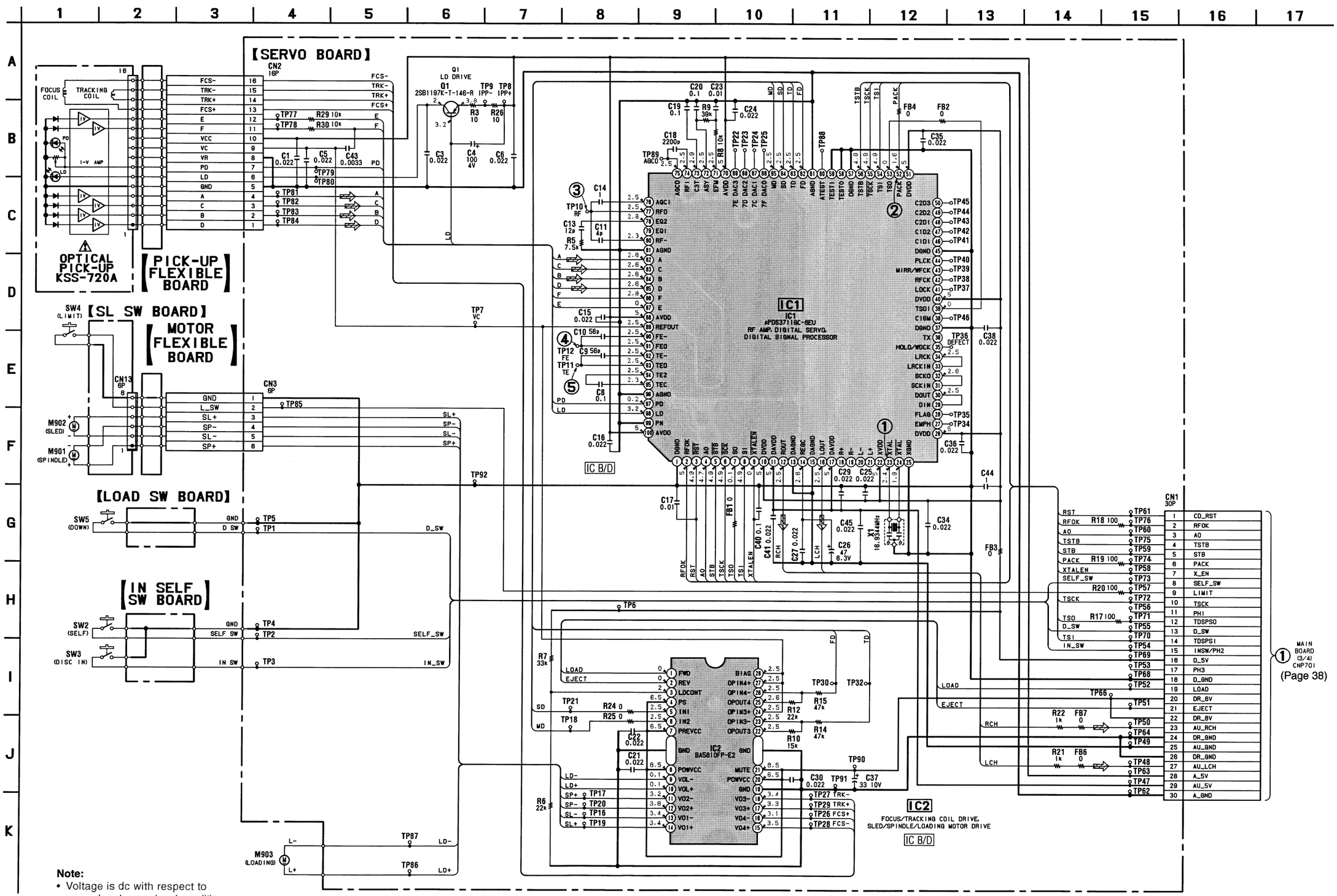
• Waveforms
— Main Board —
(MODE: FM)



• Refer to page 30 for Waveforms.

4-6. SCHEMATIC DIAGRAM — CD MECHANISM SECTION —

• Refer to page 44 for IC Block Diagram.

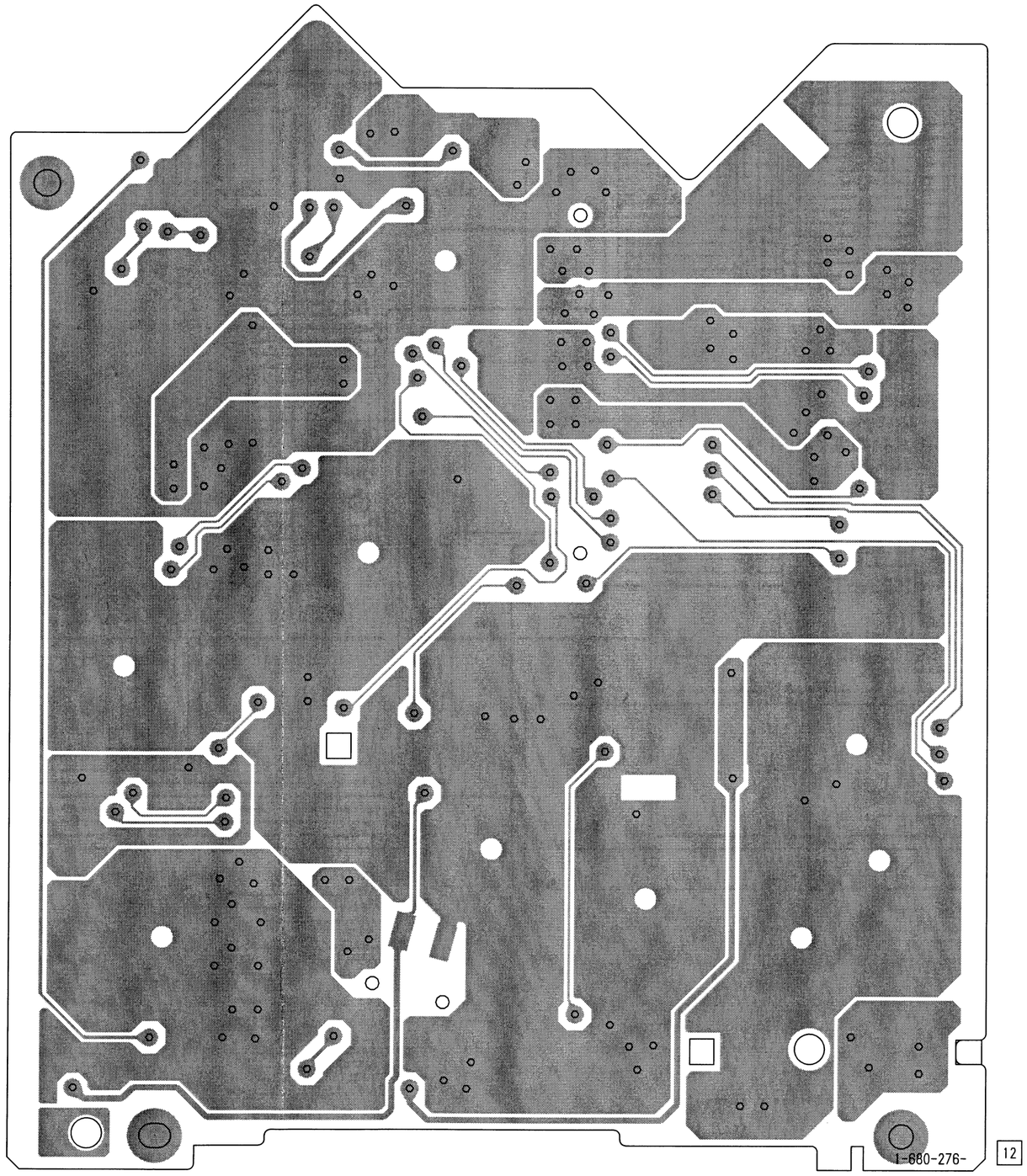


4-7. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 30 for Circuit Boards Location.

14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J

【SERVO BOARD】(SIDE B)



【SERVO BOARD】(SIDE A)

【PICK-UP FLEXIBLE BOARD】 1-676-707- 11

OPTICAL PICK-UP KSS-720A

• **Semiconductor Location**

Ref. No.	Location
IC1	E-7
IC2	H-7
Q1	C-6

1 MAIN BOARD CNP701 (Page 35)

【IN SELF SW BOARD】

SW3 (DISC IN)

SW2 (SELF)

BLU
WHT
RED

1-676-709- 11 (11)

【LOAD SW BOARD】

BLK
YEL

SW5 (DOWN)

1-685-337- 11

【SL SW BOARD】

M901 (SPINDLE)

SW4 (LIMIT)

BLK
RED
YEL

CN13

1-676-708- 11 (11)

M902 (SLED)

WHT

M903 (LOADING)

WHT
RED

CN3 1 6

BLK
BLU
RED
WHT
YEL

1-680-276- 12

【MOTOR FLEXIBLE BOARD】 1-677-182- 11

4-8. PRINTED WIRING BOARDS — MAIN SECTION — • Refer to page 30 for Circuit Boards Location.

14 13 12 11 10 9 8 7 6 5 4 3 2 1

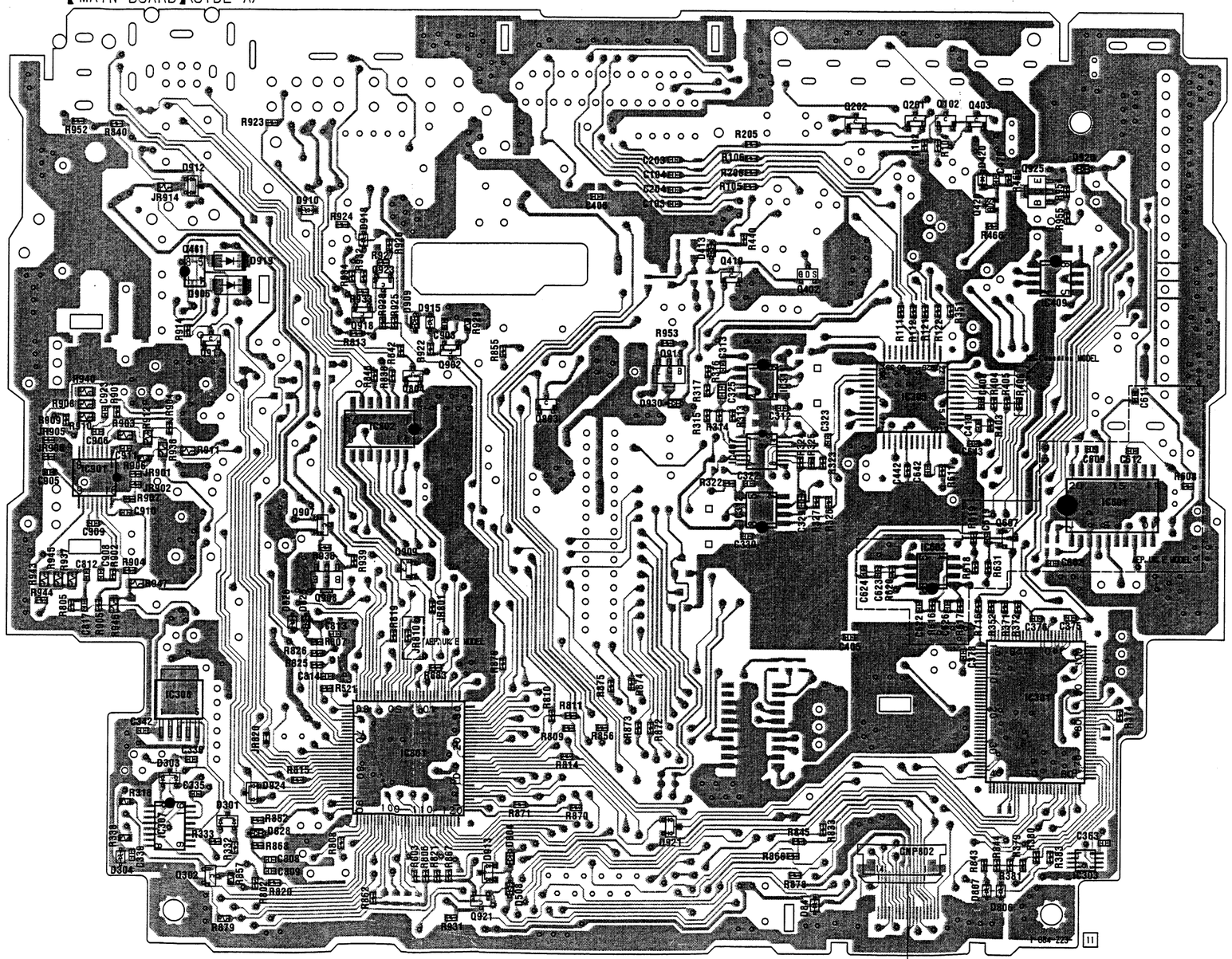
A B C D E F G H I J

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D301	I-9	IC301	H-2
D303	H-9	IC303	I-2
D304	I-10	IC305	E-3
(D402)	D-4	IC306	H-9
(D403)	C-4	IC307	I-9
(D405)	D-5	(IC308)	I-9
(D406)	D-5	IC311	E-4
(D407)	D-6	IC312	F-5
(D408)	D-5	IC407	F-5
(D409)	C-6	IC409	D-2
(D410)	D-5	IC601	F-2
(D411)	C-5	IC602	G-3
(D412)	D-5	IC801	H-7
D420	C-3	IC802	E-8
D508	I-7	IC901	F-10
(D601)	F-2	(IC902)	H-8
(D602)	G-3	(IC903)	C-6
(D604)	F-1	(IC905)	E-10
(D802)	I-4		
(D803)	F-2	(Q101)	D-3
D804	I-7	Q102	C-3
(D805)	I-3	Q201	C-3
D806	I-3	Q202	C-4
D807	I-3	Q302	I-9
(D808)	I-4	(Q303)	H-9
(D809)	I-3	(Q304)	G-9
(D810)	I-4	(Q401)	D-4
(D811)	E-7	Q402	D-4
(D815)	C-9	Q403	C-3
(D819)	J-5	Q410	D-5
(D820)	J-5	Q420	D-3
D825	G-8	Q461	D-9
D826	G-8	(Q603)	F-1
(D827)	J-5	(Q605)	F-3
D828	I-9	Q607	F-3
(D831)	J-6	Q803	E-6
(D832)	I-7	Q804	E-7
(D840)	J-5	(Q806)	H-4
D841	I-4	(Q901)	E-9
(D842)	I-4	Q902	E-7
(D843)	I-3	(Q903)	E-9
(D845)	I-3	(Q904)	E-9
(D846)	I-3	(Q905)	E-5
(D901)	D-9	(Q906)	F-10
(D902)	F-9	Q907	F-8
(D903)	D-8	Q908	G-8
(D904)	F-10	Q909	G-7
(D905)	E-8	(Q911)	G-10
D906	D-9	(Q912)	F-8
(D907)	D-8	(Q913)	F-10
(D908)	C-8	(Q914)	F-10
D909	E-7	(Q915)	F-9
D912	C-9	Q917	E-9
D913	I-7	Q918	E-8
(D914)	E-8	Q919	E-5
D915	E-7	(Q920)	E-8
(D916)	G-9	Q921	I-7
(D917)	E-8	Q923	D-8
D918	D-8	(Q924)	D-2
D919	D-9	Q925	C-2
D921	I-5	(Q929)	F-8
(D923)	E-7	(Q930)	F-7
D924	H-9		
(JR604)	C-1		

( ): SIDE B

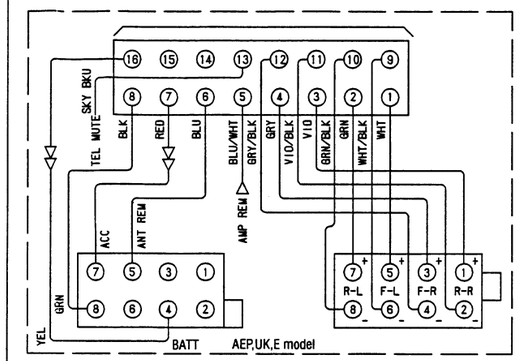
【MAIN BOARD】(SIDE A)

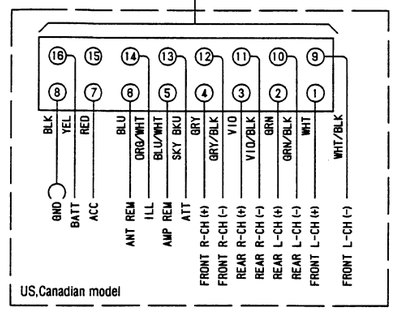


【MAIN BOARD】
(SIDE B)

PJ401
BUS AUDIO IN
AUDIO OUT
REAR
FRONT
PJ402
SUB OUT (MONO)
ANTENNA
WHT
BLK
RED

CNP803
REMOTE IN
CNP801
BUS CONTROL IN





1 SERVO BOARD CN1
(Page 33)

【SW BOARD】
CNP902
W801 (OPEN/CLOSE)
YEL
BLK
BLK
WHT
RED
OPEN
CLOSE
SW900
SW900 (OPEN/CLOSE)

3 SUB (CD) BOARD CN501
(Page 40)

4-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) —

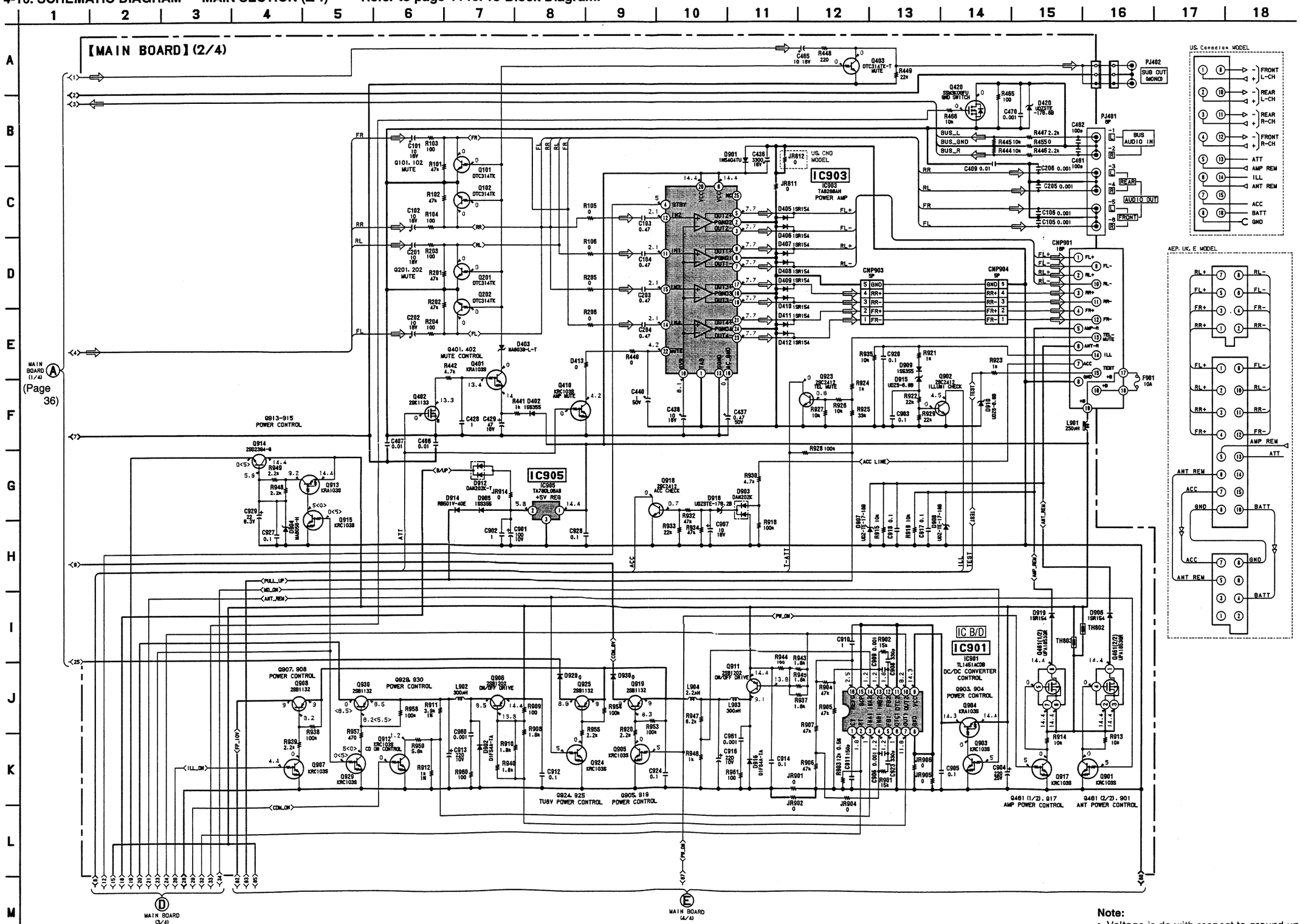
• Refer to page 30 for Waveform.
• Refer to page 44 for IC Block Diagrams.

【MAIN BOARD】(1/4)

AJ1 (ANTENNA)
PJ403 2P
TU601 TUX-020
JR604 JR604 0 AEP, UK, E MODEL
JR604 RB501V-40 US, Canadian MODEL
C633 18p
C637 0.022
R611 33k
C632 0.1
R610 2.2k
C638 0.068
R613 47k
C634 0
R612 0
C639 1
R621 0
R623 100
R622 100
C645 47p
JR601 0
JR602 0
JR610 0.001 AEP, UK, E MODEL
C628 0.1
IC B/D IC601 AEP, UK, E MODEL
IC601 SAA6588T/V2 RDS DECODER
X601 4.3MHz
C602 0
C603 27p
R603 2.2k
C604 27p
C646 10p
R604 470k
C616 1000p
R605 100
R606 100
C609 560p
C610 2.2 50V
C611 330p
C612 1000p
C613 47 16V
R608 10
C607 1000p
R607 10
Q603 2SD1824 +5V REG
R614 470
D604 1SS355
C614 0.1
C615 22 10V
D601 MA8051-L-T
IC602 BA4558F NOISE CANCEL
R616 100
C622 470p
C626 10p
R617 100k
C625 0.47
C624 1000p
R620 2.2k
C623 1000p
R619 2.2k
R615 10k
C620 0.1
R618 4.7k
R627 10k
R631 2.2k
R626 22
Q607 2SC2412 FM AMP
D602 DAN217-T148
QUALITY
R609 0
R624 100
Q605 KRC103S SWITCH
C621 0.047
R625 1M
D803 MA8051-H-T
NS_MASK
TU_8V
FM_AGC
MPX
SDA
SCL
S_METER
SDA_ROM
SCL_ROM
DAVN
AM_DET
ADSO1
ADSO2
IC407 TC4066BFT
IC407 ADSO SWITCH
C324 0.47
R313 15k
R314 15k
R315 10k
C325 0.47
R317 10k
R316 0
R323 15k
R324 15k
R325 10k
C328 0.47
C329 0.47
R327 10k
R326 0
R450 0
IC311 NJM4580M L-CH ADSO
C312 1500p
R312 10k
R311 10k
C311 0.012
IC312 NJM4580M R-CH ADSO
C322 1500p
R322 10k
R321 10k
C321 0.012
C330 0.1
IC409 BA4558F SUB WOOFER AMP
R457 47k
C404 22 16V
C416 1
C706 C705
C323 0.22
C313 0.22
R-CH
IC305 TDA7408 ELECTRONIC VOLUME
BUS_R
BUS_GND
BUS_L
C402 1
C403 1 50V
C401 1
C442 0.01
C642 0.022
C643 1
R111 100 FL
R112 100 RL
R121 100 FR
R122 100 RR
R351 220
D414 0
US, Canadian MODEL R406 0
R403 47k
C408 0.47
R404 100
R405 100
C410 0.0047
C412 100 10V
C411 0.1
QUALITY
S_METER
VOL_MUTE
SDA
SCL
SA_CLK
SA_IN
MAIN BOARD (2/4) (Page 37)
MAIN BOARD (4/4) (Page 39)
MAIN BOARD (3/4) (Page 38)

Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM/MW/LW

4-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/4) — • Refer to page 44 for IC Block Diagram.



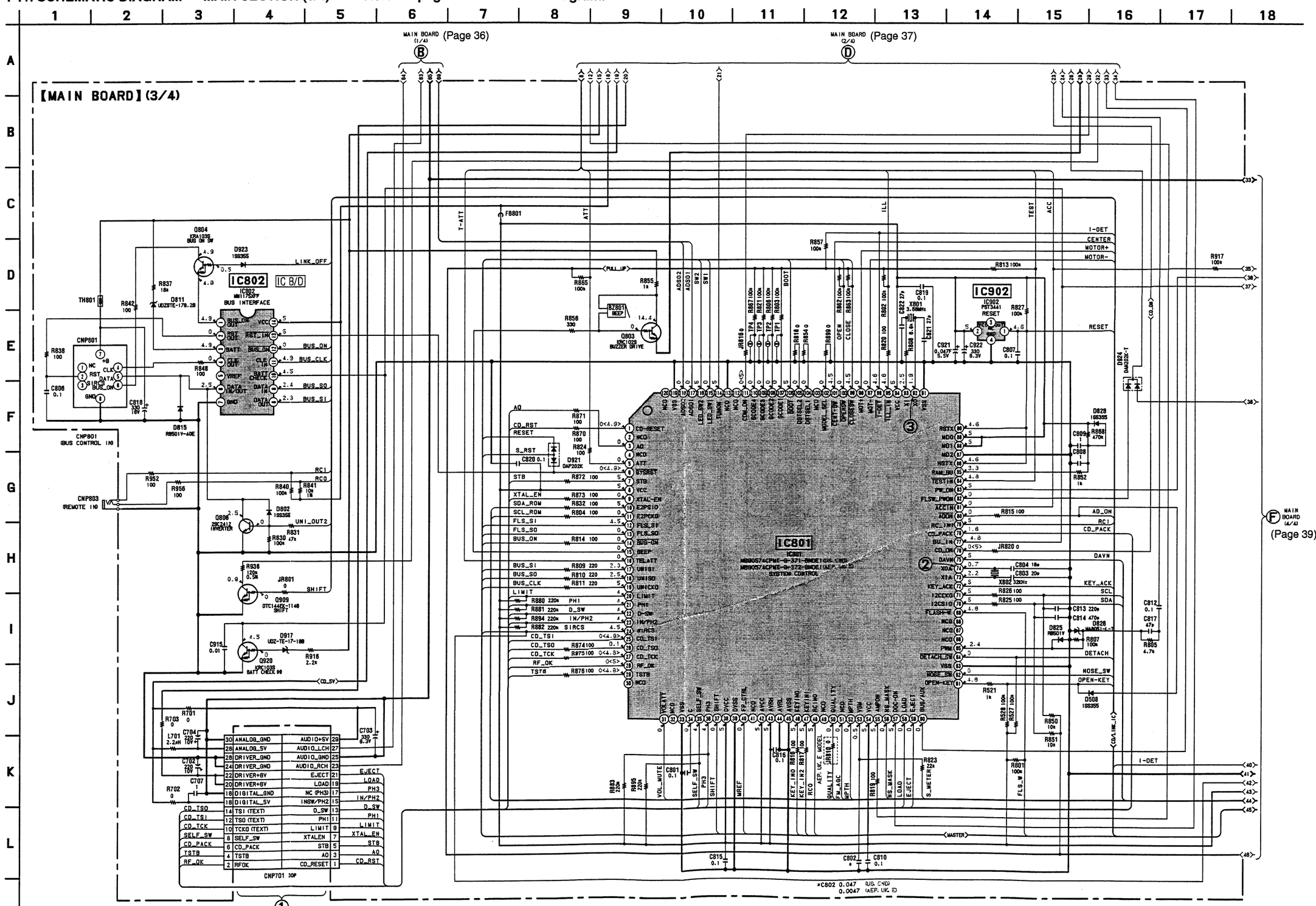
Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM/MW/LW
  < > : CD PLAY

• Refer to page 30 for Waveforms.

4-11. SCHEMATIC DIAGRAM — MAIN SECTION (3/4) —

• Refer to page 44 for IC Block Diagram.

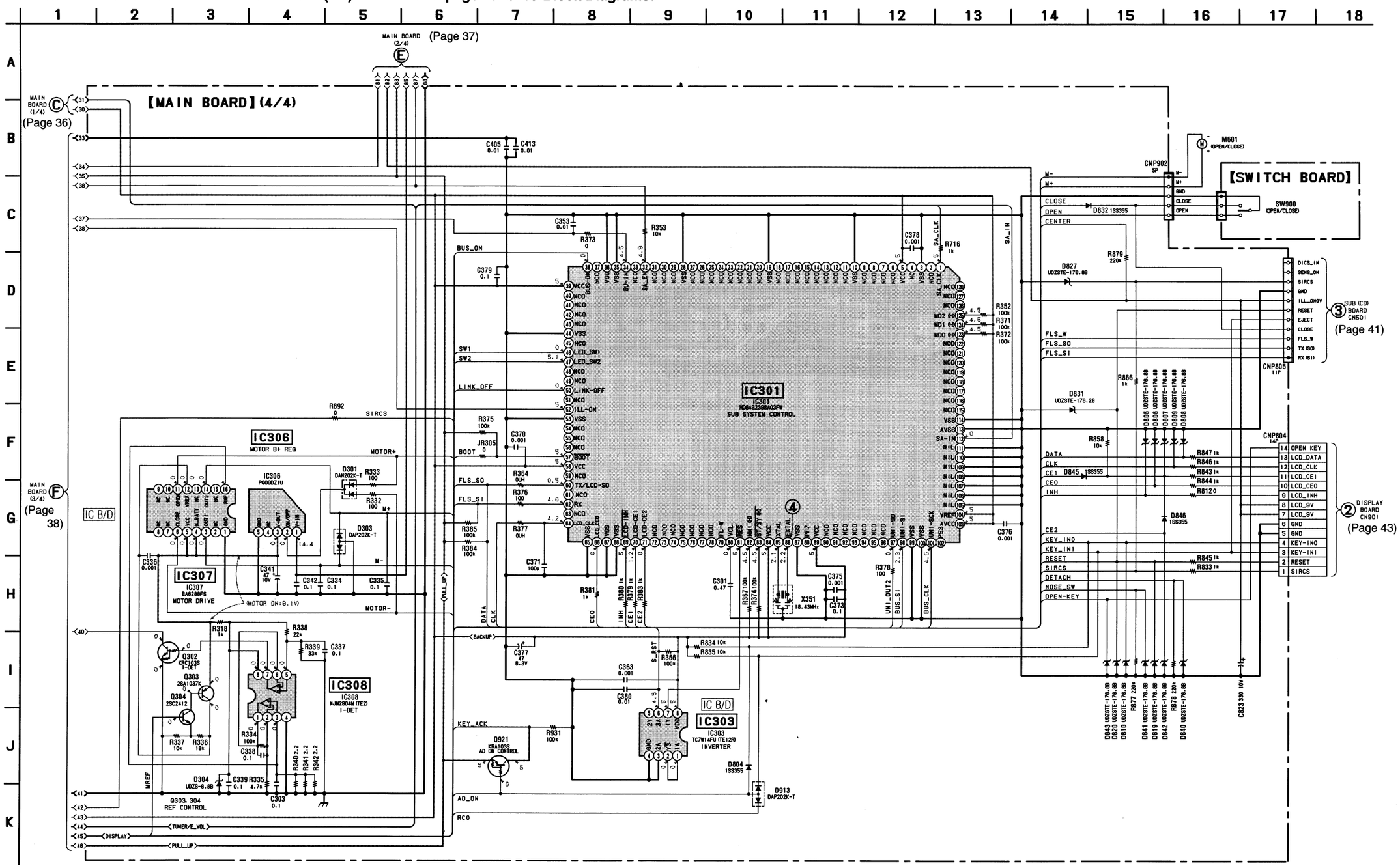


Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM/MW/LW
  < > : CD PLAY

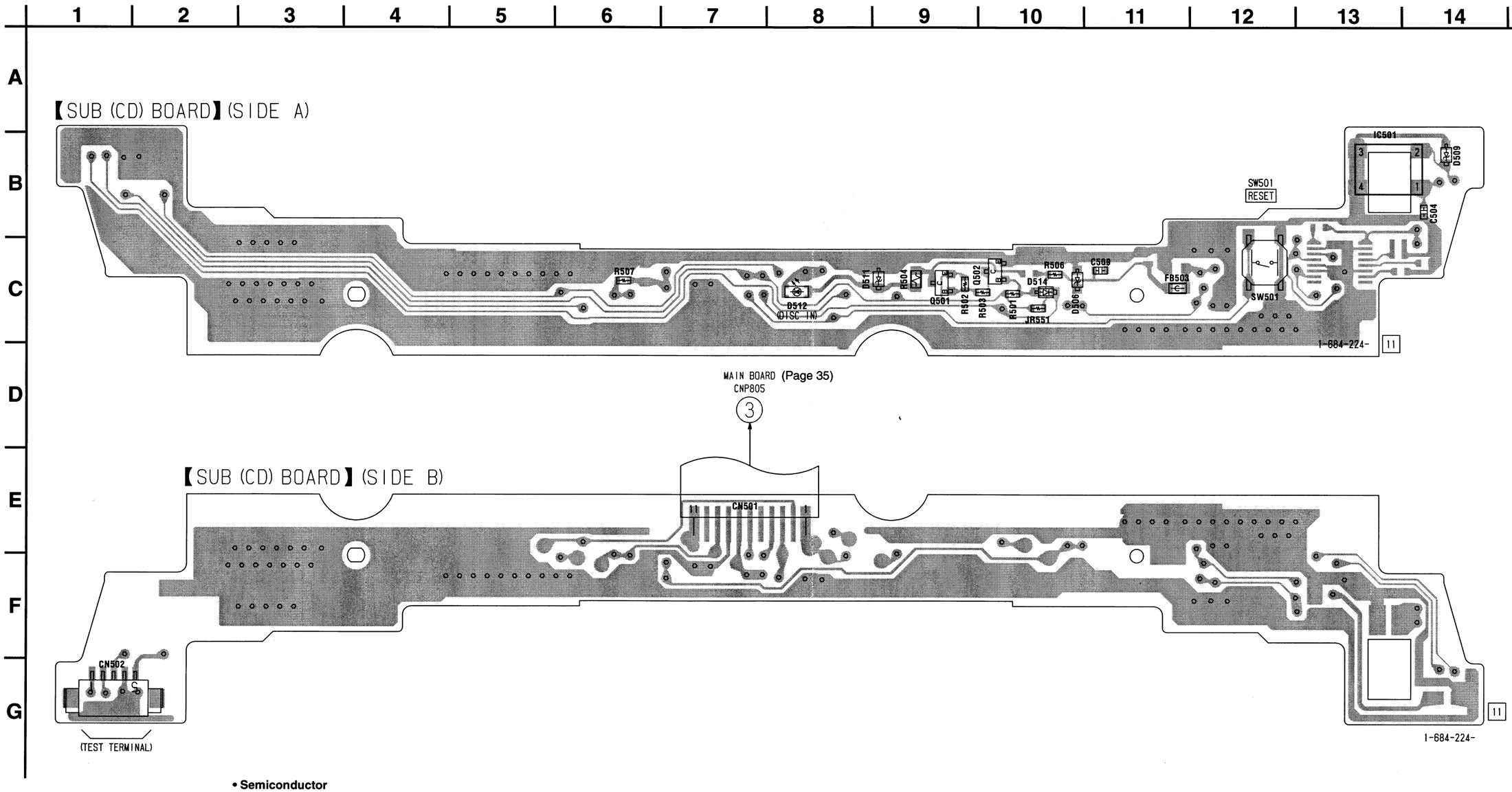
• Refer to page 30 for Waveform.

4-12. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) — • Refer to page 45 for IC Block Diagrams.



Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

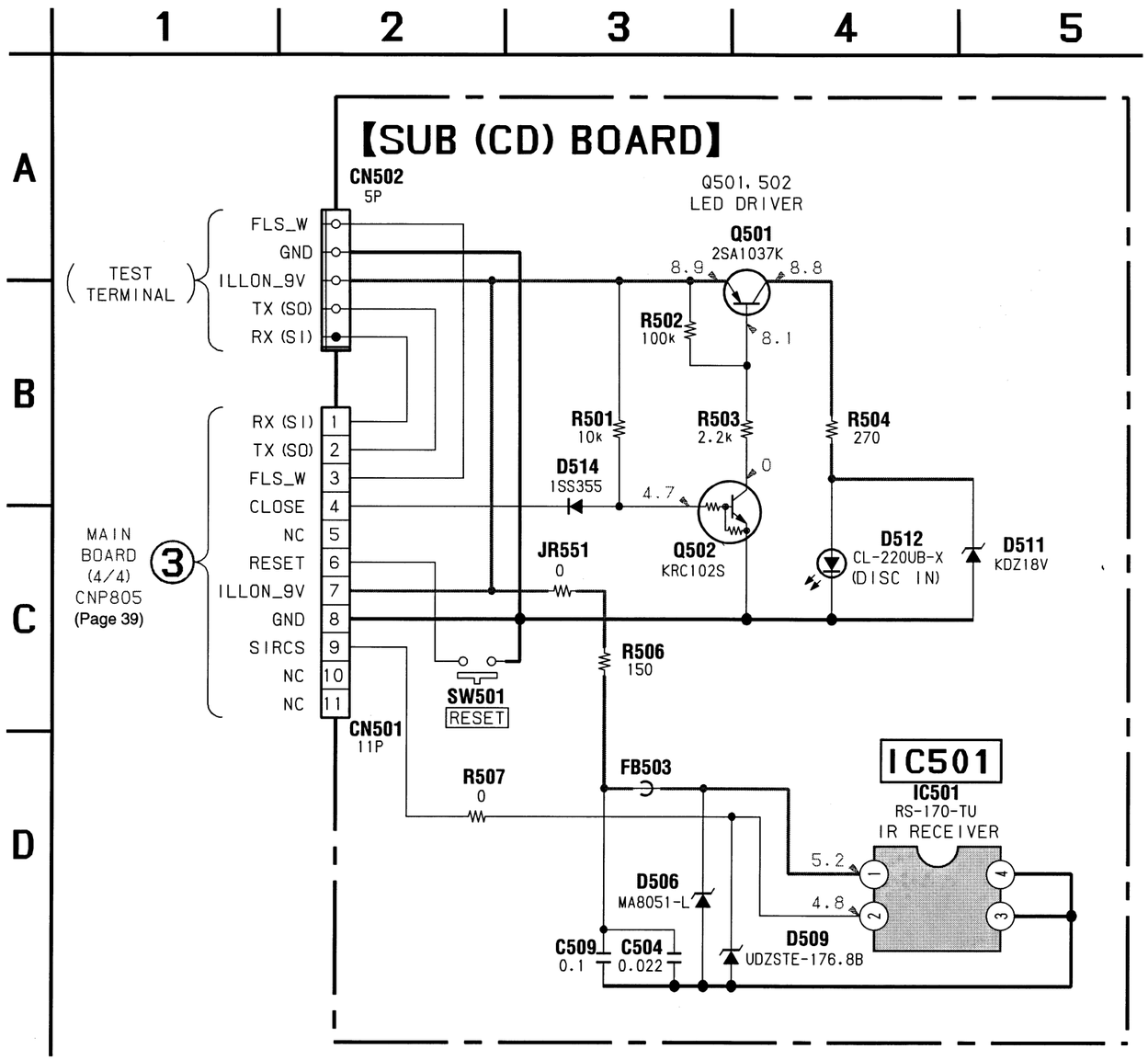
4-13. PRINTED WIRING BOARD — SUB (CD) SECTION — • Refer to page 30 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location
D506	C-10
D509	B-14
D511	C-8
D512	C-8
D514	C-10
IC501	B-13
Q501	C-9
Q502	C-10

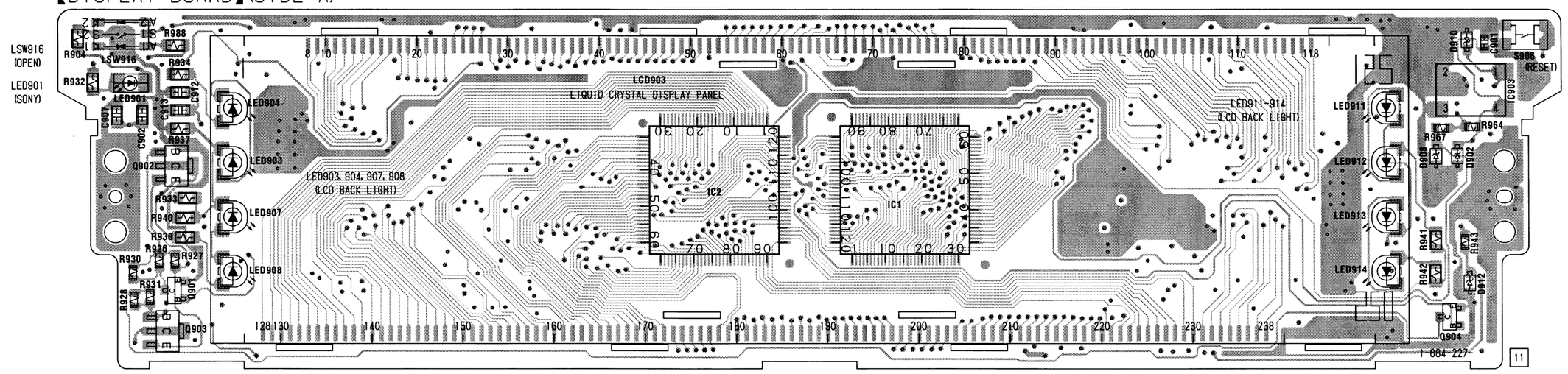
4-14. SCHEMATIC DIAGRAM — SUB (CD) SECTION —



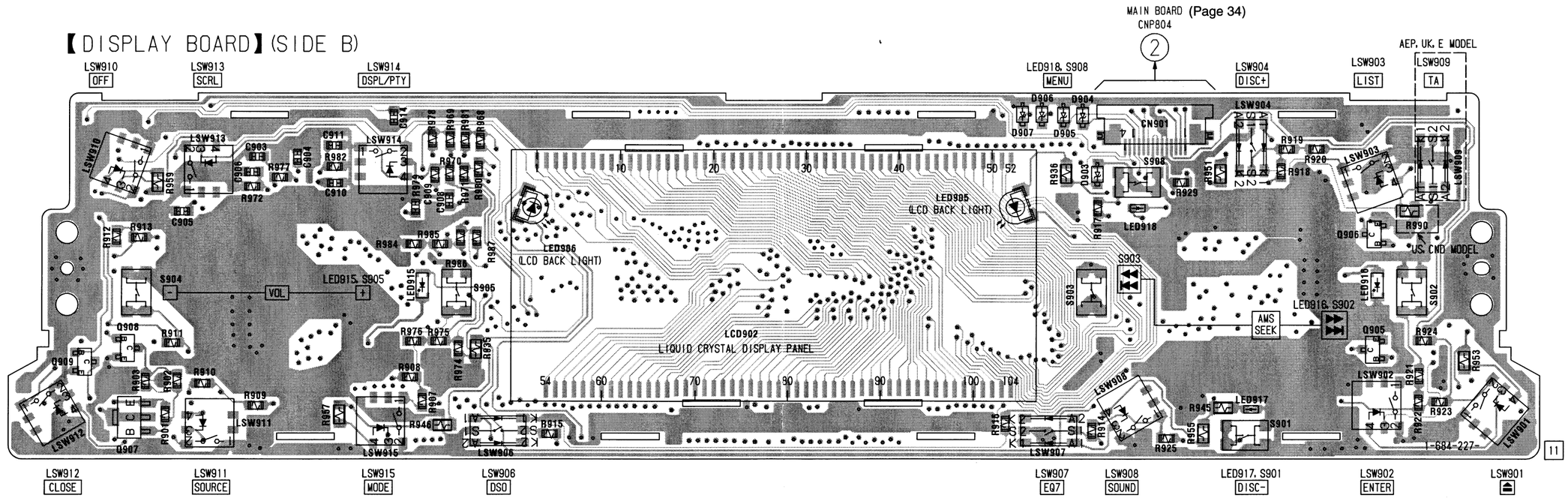
Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

4-15. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 30 for Circuit Boards Location.

【DISPLAY BOARD】(SIDE A)



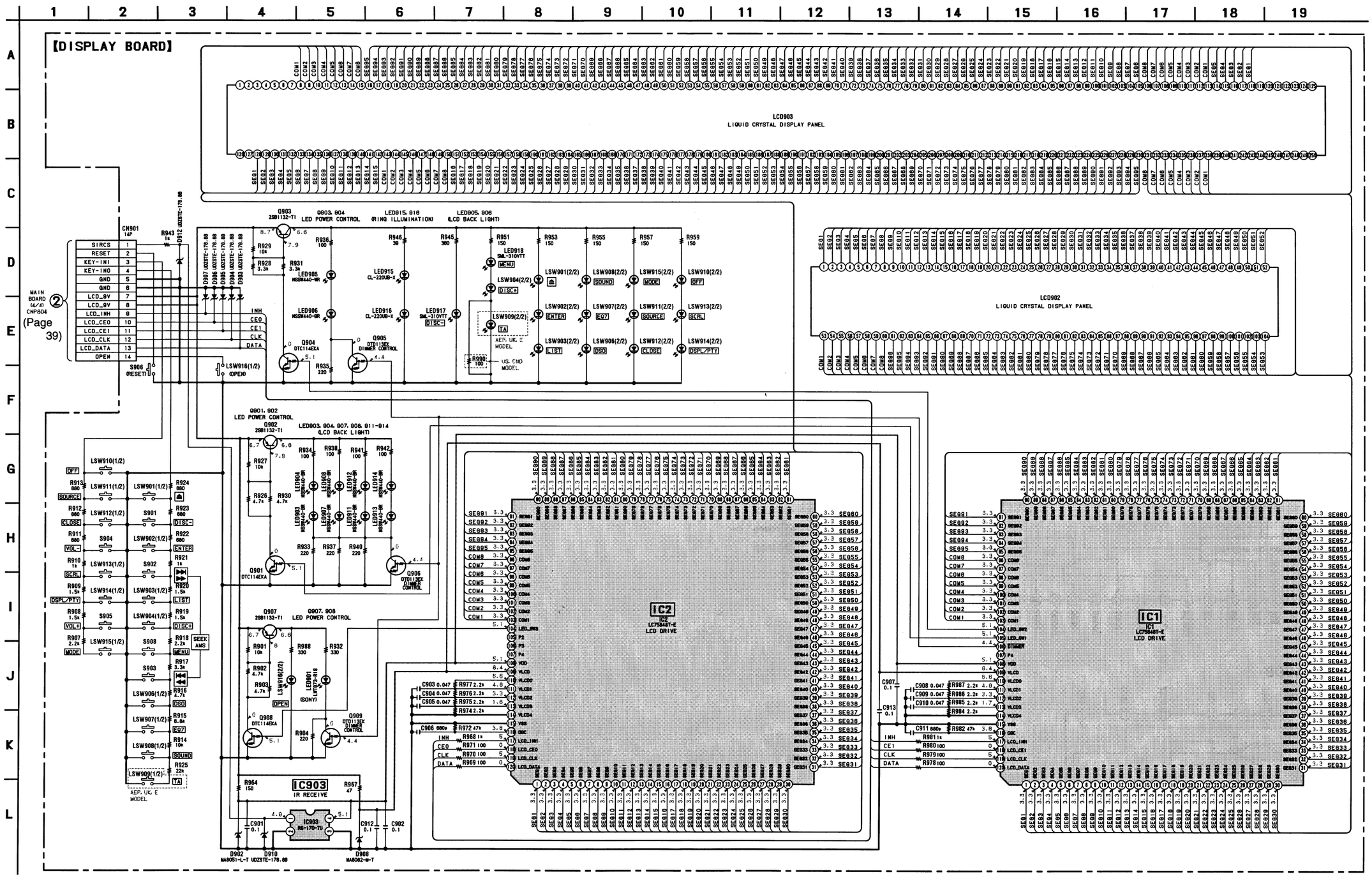
【DISPLAY BOARD】(SIDE B)



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D902	B-13	IC2	C-7	LED908	C-3	Q901	C-2
D903	F-10	IC903	B-14	LED911	B-13	Q902	B-2
D904	E-10			LED912	B-13	Q903	D-2
D905	E-10	LED901	B-2	LED913	C-13	Q904	D-13
D906	E-10	LED903	B-3	LED914	C-13	Q905	G-13
D907	E-10	LED904	B-3	LED915	G-5	Q906	F-13
D908	B-13	LED905	F-9	LED916	G-13	Q907	H-2
D910	A-13	LED906	F-6	LED917	H-12	Q908	G-2
D912	C-14	LED907	C-3	LED918	F-11	Q909	G-2
IC1	C-8						

4-16. SCHEMATIC DIAGRAM — DISPLAY SECTION —

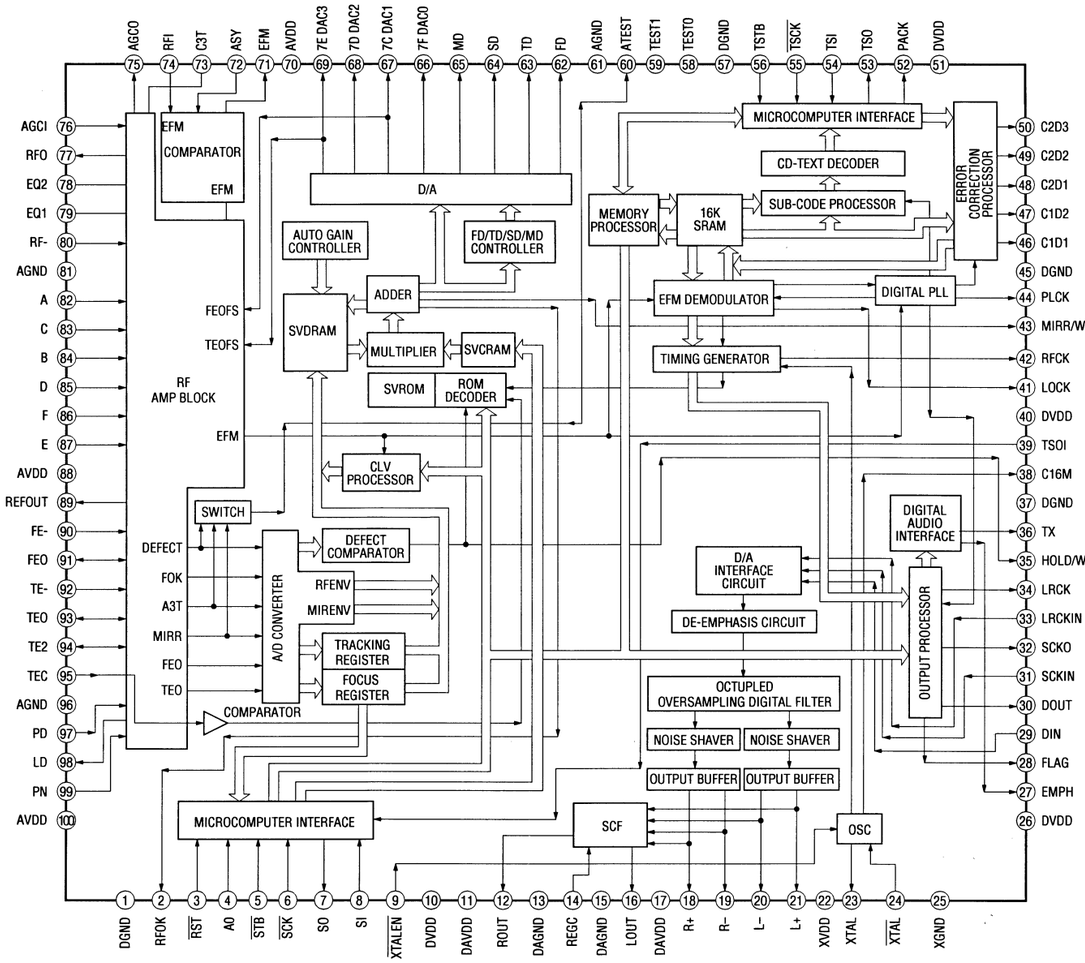


Note:

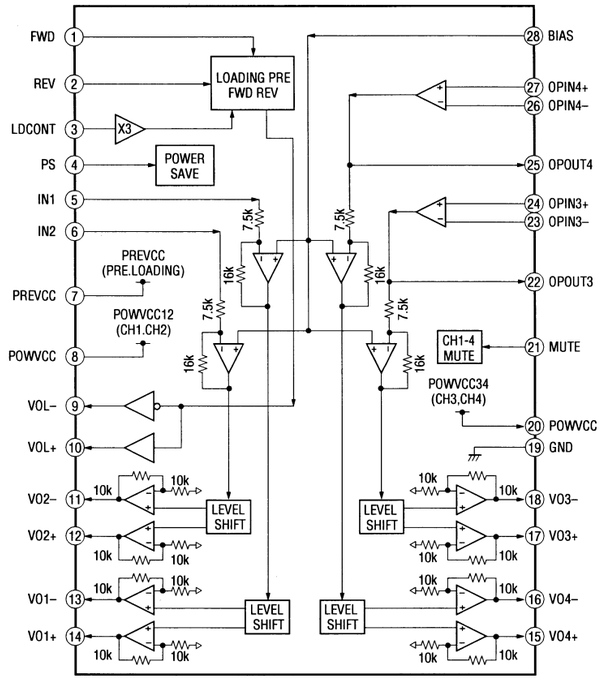
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

• IC BLOCK DIAGRAMS

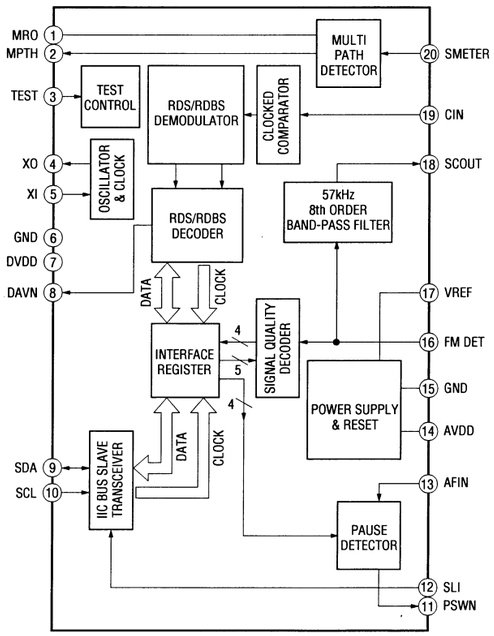
IC1 µPD63711GC-8EU



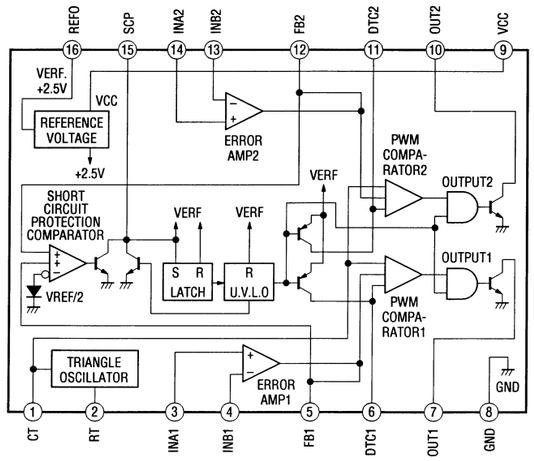
IC2 BA5810FP-E2



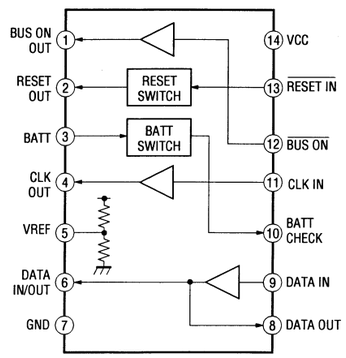
IC601 SAA6588T/V2



IC901 TL1451ACDB

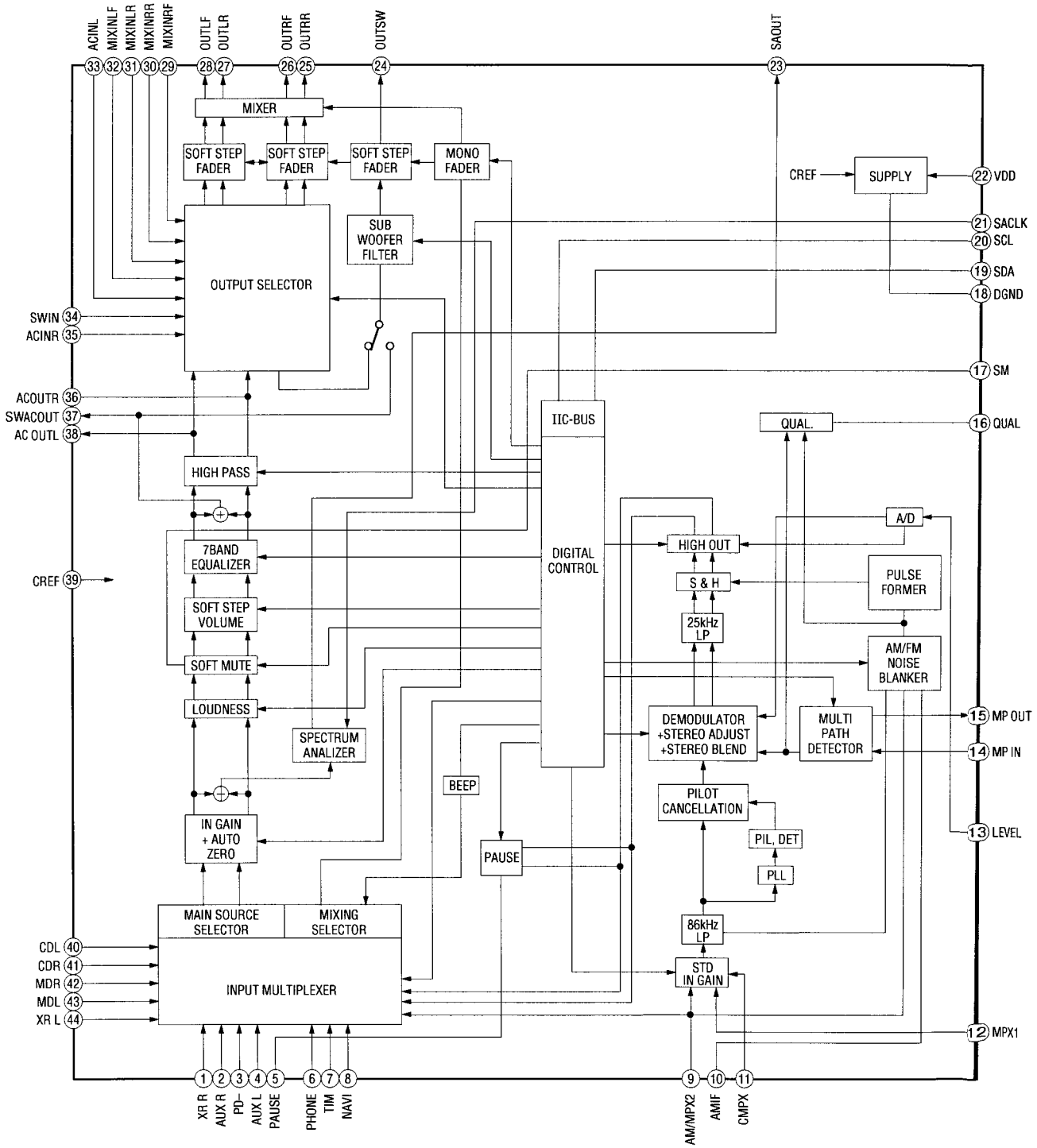


IC802 MM1175XFF

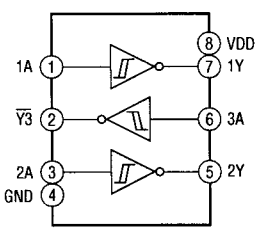


44

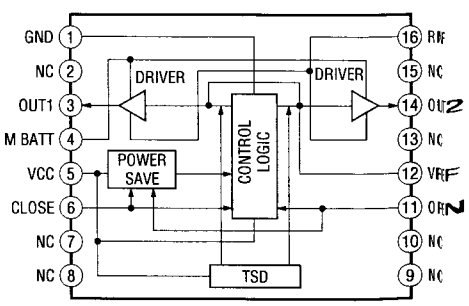
IC305 TDA7406



IC303 TC7W14FU (TE12R)



IC307 BA6288FS



SECTION 5
EXPLODED VIEWS

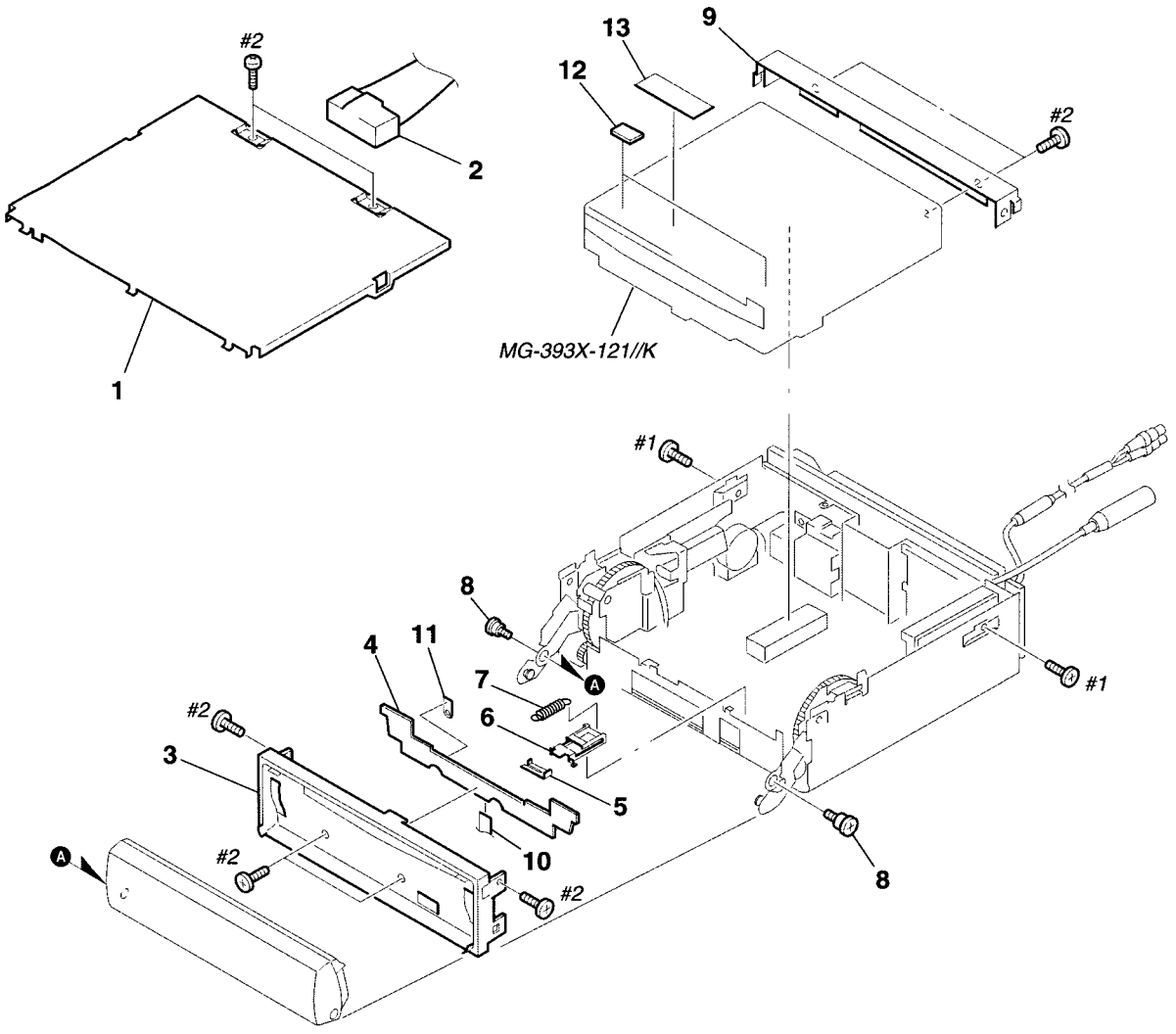
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.
- Abbreviation
  CND: Canadian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

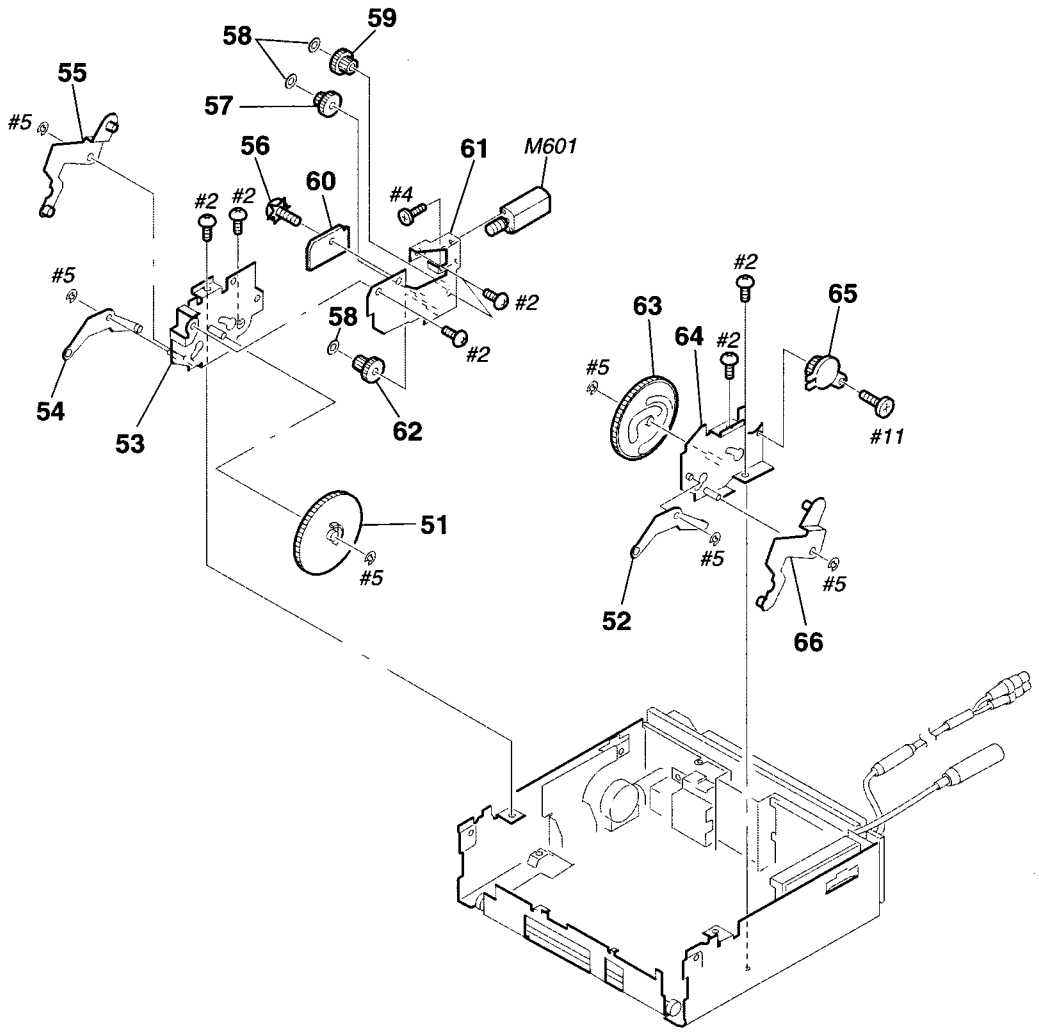
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

5-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
* 1	3-230-511-21	COVER	
2	1-776-207-72	CORD (WITH CONNECTOR) (POWER) (US,CND)	
2	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (AEP,UK,E)	
3	X-3381-965-1	PANEL (CD) SUB ASSY, SUB (US,CND)	
3	X-3381-966-1	PANEL (CD) SUB ASSY, SUB (AEP,UK,E)	
4	1-684-224-11	SUB (CD) BOARD	
5	3-230-515-01	SLIDER (FLEXIBLE)	
6	3-230-514-01	COVER (FLEXIBLE)	
7	3-230-516-01	SPRING (FLEXIBLE), TENSION	
8	3-045-756-01	SCREW (PANEL)	
* 9	3-045-743-01	BRACKET (CD)	
10	1-765-143-41	CABLE, FLAT (FFC) 11P	
11	3-232-857-01	SHEET (SUB PANEL), ELECTROSTATIC	
* 12	3-024-285-01	CUSHION (RUBBER)	
13	3-223-913-11	LABEL (OP CAUTION)	
#1	7-685-790-09	SCREW +PTT 2.6X4 (S)	
#2	7-685-792-09	SCREW +PTT 2.6X6 (S)	

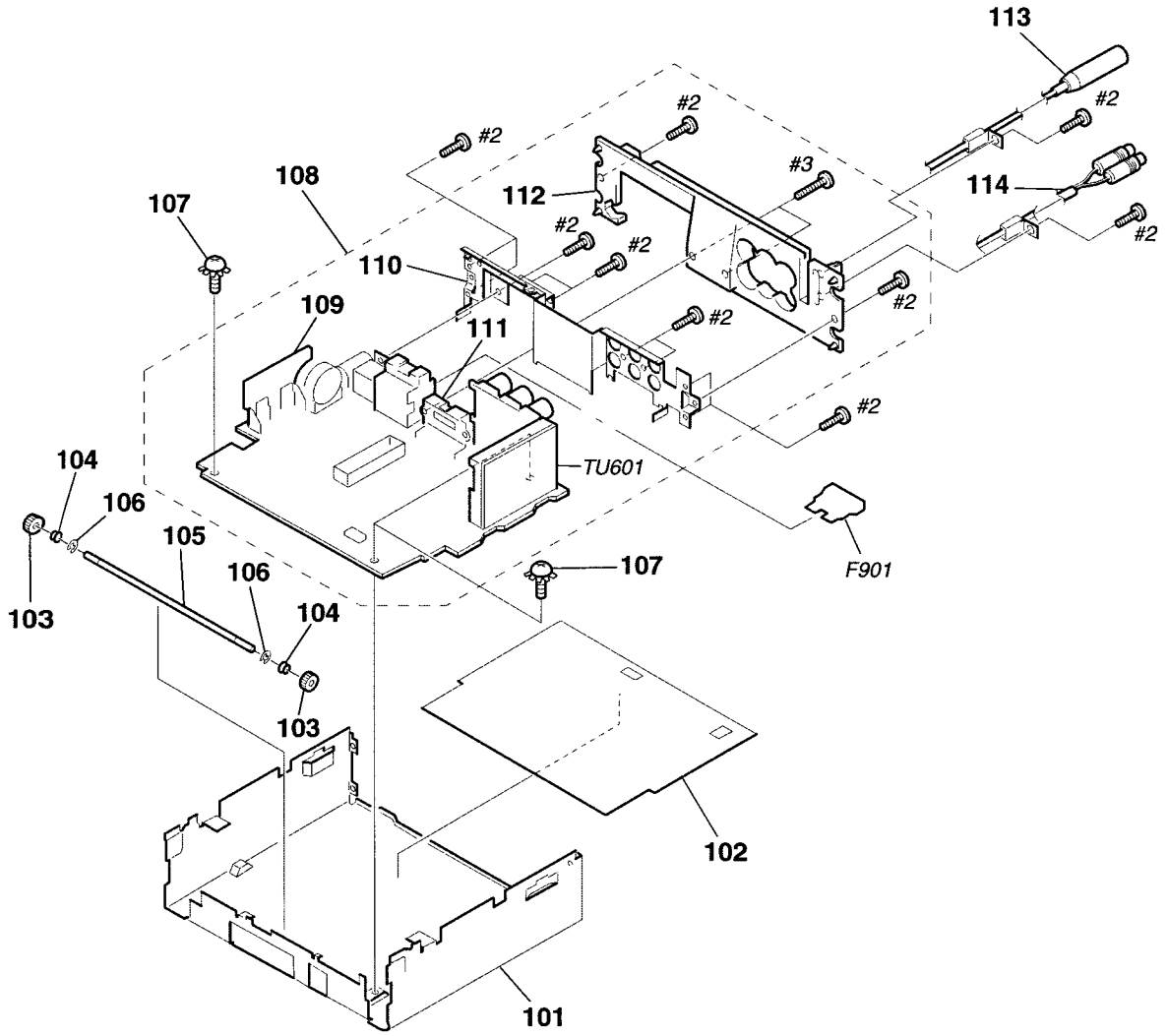
5-2. CAM SECTION



Ref. No.	Part No.	Description	Remark
51	3-230-495-01	CAM (L)	
52	X-3380-549-1	ARM (B-R) ASSY	
53	X-3380-544-1	BRACKET (L) ASSY	
54	X-3380-548-1	ARM (B-L) ASSY	
55	X-3380-546-1	ARM (A-L) ASSY	
56	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
57	3-045-714-01	GEAR (B)	
58	3-342-940-01	WASHER (M)	
59	3-045-713-01	GEAR (A)	
60	A-3326-298-A	SWITCH BOARD, COMPLETE	
* 61	X-3378-711-3	BRACKET (MOTOR) ASSY	

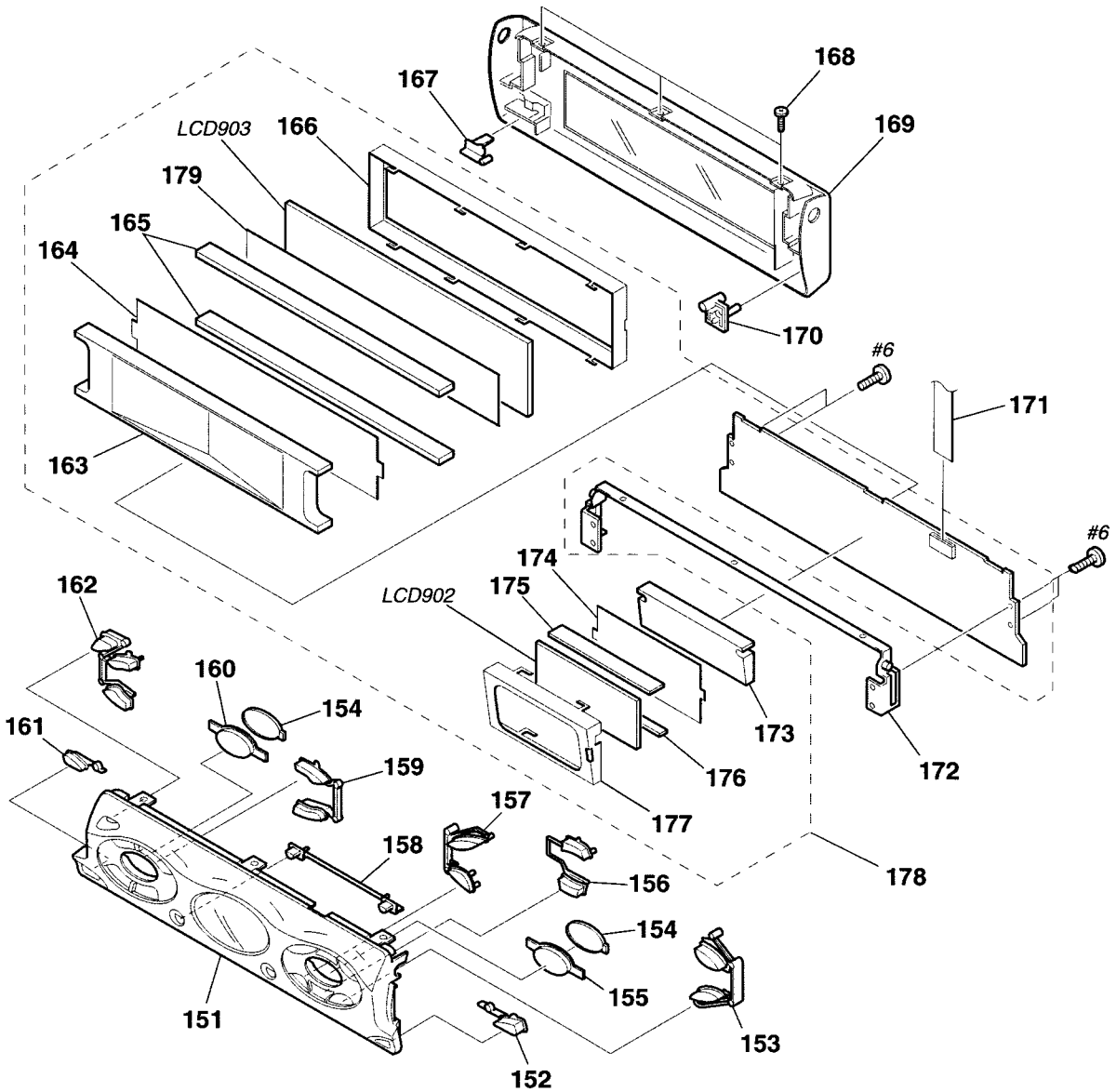
Ref. No.	Part No.	Description	Remark
62	3-230-494-01	GEAR (C)	
63	3-230-496-01	CAM (R)	
64	X-3380-545-1	BRACKET (R) ASSY	
65	3-030-909-11	DAMPER, OIL	
66	X-3380-547-1	ARM (A-R) ASSY	
M601	X-3378-769-1	MOTOR ASSY (OPEN/CLOSE)	
#2	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#4	7-627-553-28	SCREW, PRECISION +P 2X2.5	
#5	7-624-102-04	STOP RING 1.5, TYPE -E	
#11	7-621-772-18	SCREW +P 2X4	

5-3. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
101	X-3380-558-1	CHASSIS (CD) ASSY	
* 102	3-230-417-11	SHEET, INSULATING	
103	3-230-493-01	GEAR (DRIVE SHAFT)	
104	3-230-444-01	GUIDE (DRIVE SHAFT)	
105	3-045-721-01	SHAFT, DRIVE	
106	3-040-692-01	RING, CE TYPE RETAINING	
107	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
108	A-3274-359-A	MAIN BOARD, COMPLETE (US,CND)	
108	A-3274-370-A	MAIN BOARD, COMPLETE (AEP,UK,E)	
* 109	3-045-760-01	HEAT SINK (REG)	
* 110	3-230-509-01	CHASSIS, BACK	
* 111	3-019-565-01	BRACKET (IC)	
* 112	3-230-510-31	HEAT SINK	
113	1-777-246-41	CORD (WITH CONNECTOR) (ANTENNA)	
114	1-790-375-31	CORD (WITH CONNECTOR) (SUB OUT (MONO))	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TU601	A-3220-813-A	TUNER UNIT (TUX-020)	
#2	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#3	7-685-794-09	SCREW +PTT 2.6X10 (S)	

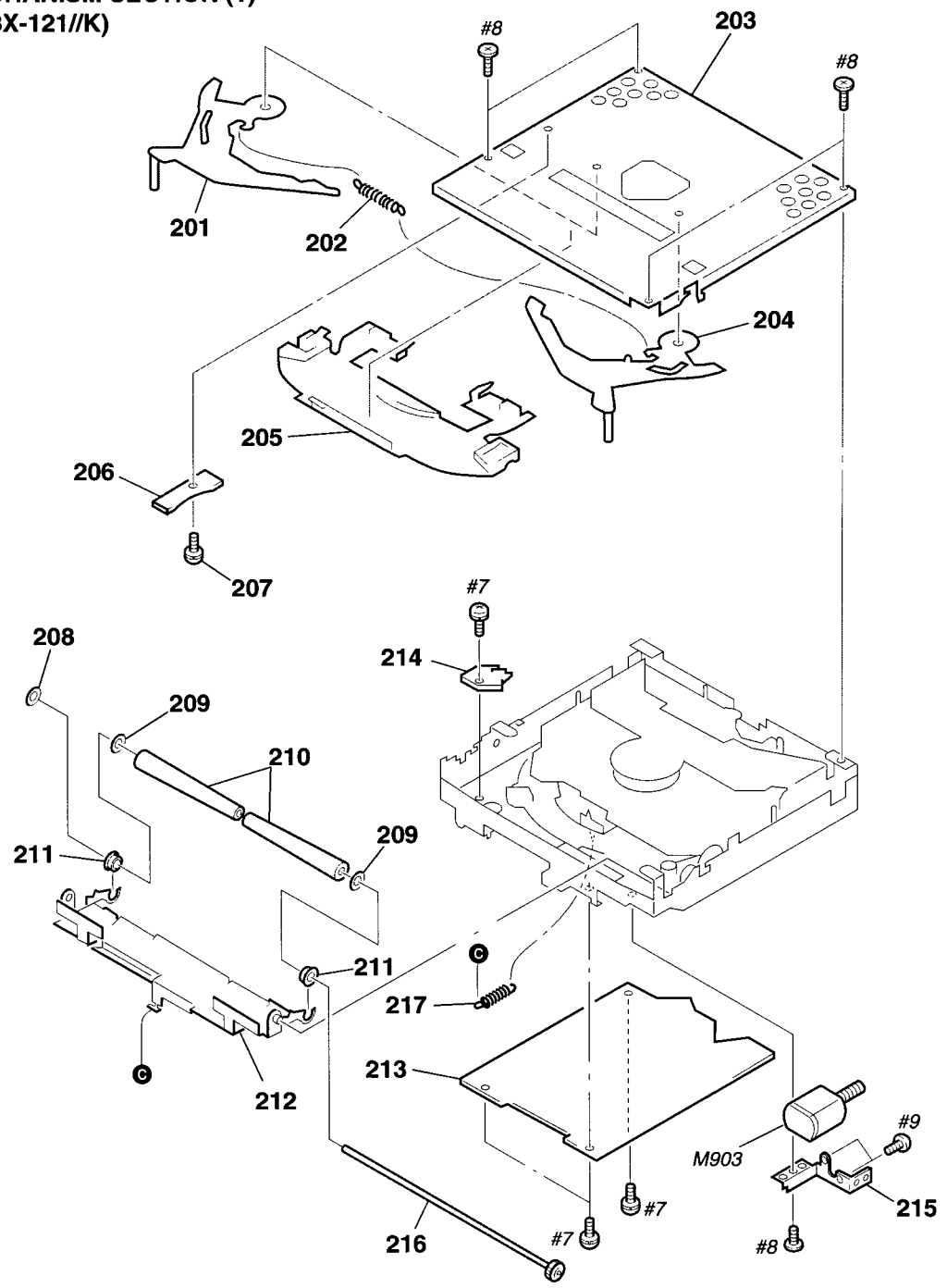
5-4. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
151	X-3381-645-1	PANEL (KEY) ASSY, FRONT (AEP,UK,E)	
151	X-3381-648-1	PANEL (KEY) ASSY, FRONT (US,CND)	
152	3-238-816-01	BUTTON (EJECT)	
153	3-238-820-11	BUTTON (ENTER)	
154	3-238-814-01	HOLDER (REFLECTION), BUTTON	
155	X-3381-650-1	BUTTON (SEEK/AMS) ASSY	
156	3-238-821-01	BUTTON (DISC)	
157	3-238-819-01	BUTTON (SOUND)	
158	3-238-817-01	BUTTON (DSO)	
159	3-238-818-01	BUTTON (MODE) (US,CND)	
159	3-238-818-11	BUTTON (MODE) (AEP,UK,E)	
160	X-3381-649-1	BUTTON (VOL) ASSY	
161	3-238-815-01	BUTTON (CLOSE)	
162	3-239-338-01	BUTTON (SOURCE)	
163	3-238-809-01	PLATE (LCD MAIN), LIGHT GUIDE	
164	3-238-808-01	SHEET (MAIN), REFLECTION	
165	1-694-924-11	CONDUCTIVE BOARD, CONNECTION	
166	3-238-807-01	BRACKET (LCD MAIN)	

Ref. No.	Part No.	Description	Remark
167	3-238-803-01	BUTTON (OPEN)	
168	2-626-869-01	SCREW (M2X3), SERRATION	
169	X-3382-158-1	PANEL (MAIN) ASSY	
170	3-238-804-01	BUTTON (RESET)	
171	1-685-184-11	FLEXIBLE BOARD	
172	X-3381-646-1	BRACKET (PANEL) ASSY	
173	3-238-827-01	PLATE (LCD KEY), LIGHT GUIDE	
174	3-238-826-01	SHEET (KEY), DIFFUSION	
175	1-694-925-11	CONDUCTIVE BOARD, CONNECTION	
176	1-694-926-11	CONDUCTIVE BOARD, CONNECTION	
177	3-238-825-01	BRACKET (LCD KEY)	
178	A-3274-362-A	DISPLAY BOARD, COMPLETE (UK,CND)	
178	A-3274-373-A	DISPLAY BOARD, COMPLETE (AEP, UK,E)	
* 179	3-230-468-01	SHEET (DSPL), DIFFUSION	
LCD902	1-804-636-11	DISPLAY PANEL, LIQUID CRYSTAL	
LCD903	1-804-634-11	DISPLAY PANEL, LIQUID CRYSTAL	
#6	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	

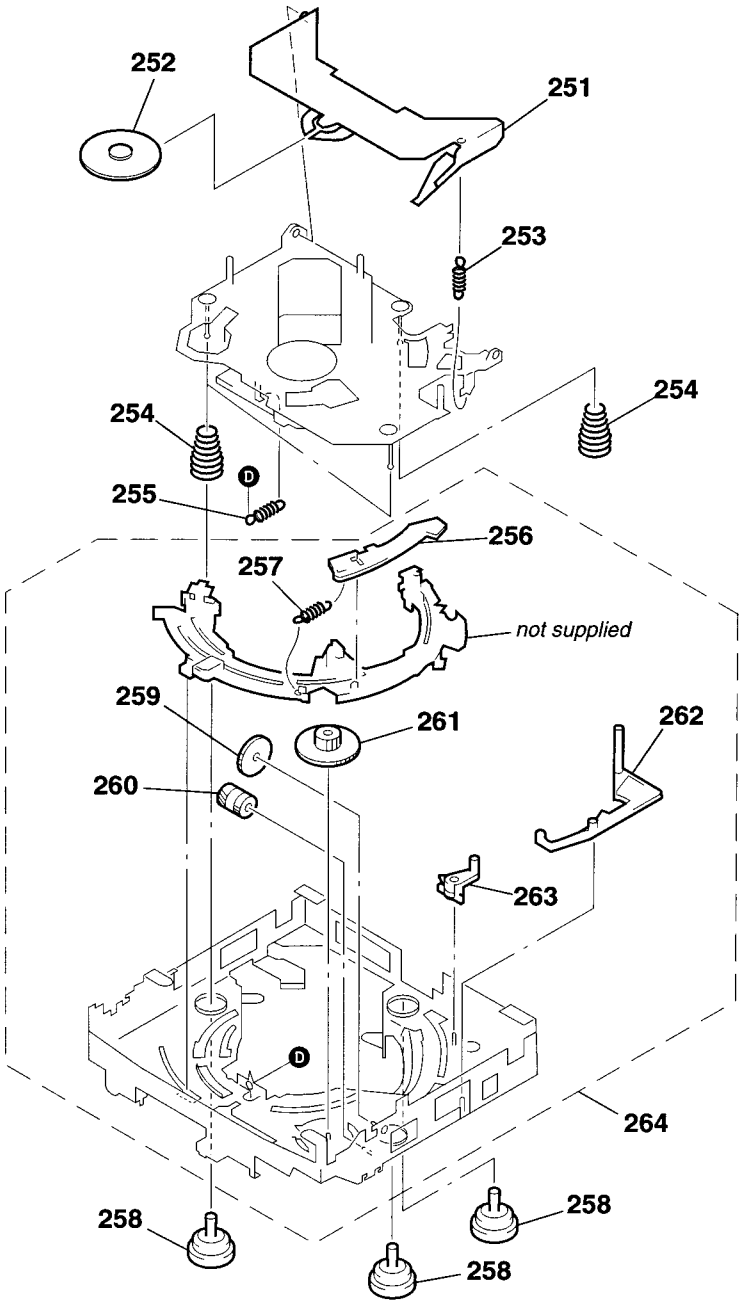
5-5. CD MECHANISM SECTION (1)
(MG-393X-121//K)



Ref. No.	Part No.	Description	Remark
201	3-040-050-01	LEVER (L)	
202	3-040-038-01	SPRING (LR), TENSION	
203	3-040-039-02	CHASSIS (T)	
204	3-040-067-01	LEVER (R)	
205	3-040-037-01	GUIDE (DISC)	
* 206	1-676-709-11	IN SELF SW BOARD	
207	3-044-206-11	SCREW, SPECIAL	
208	3-043-880-01	RING (RA), RETAINING	
209	3-040-042-01	WASHER	
210	3-040-044-01	ROLLER (S)	
211	3-040-022-01	RETAINER (ROLLER), SHAFT	

Ref. No.	Part No.	Description	Remark
212	3-040-040-02	ARM (ROLLER)	
* 213	A-3283-048-A	SERVO BOARD, COMPLETE	
* 214	1-685-337-11	LOAD-SW BOARD	
215	3-221-779-01	BRACKET (MOTOR)	
216	A-3301-980-A	SHAFT ROLLER ASSY	
217	3-040-034-01	SPRING (RA), TENSION	
M903	A-3315-039-A	MOTOR SUB ASSY, LO (LOADING)	
#7	7-628-253-00	SCREW, SPECIAL	
#8	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3	
#9	7-627-553-17	SCREW, PRECISION +P 2X2 TYPE3	

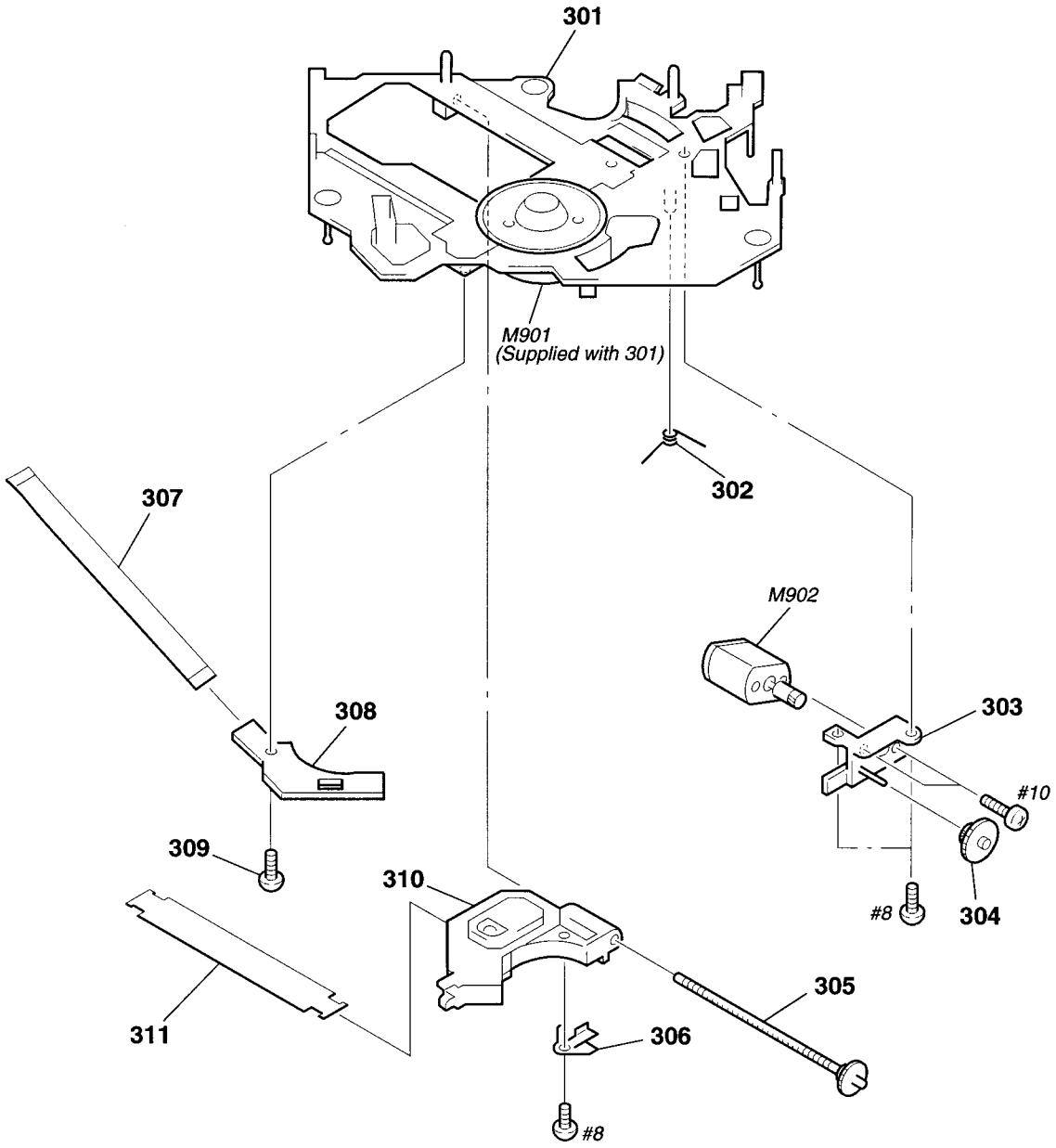
5-6. CD MECHANISM SECTION (2)
(MG-393X-121//K)



Ref. No.	Part No.	Description	Remark
251	3-040-025-01	ARM, CHUCKING	
252	3-040-024-01	RETAINER (DISC)	
253	3-040-026-01	SPRING (CH), TENSION	
254	3-040-032-01	SPRING (FL), COMPRESSION	
255	3-040-033-01	SPRING (KF1), TENSION	
256	3-040-051-02	LEVER (TR)	
257	3-040-059-01	SPRING (TR), TENSION	

Ref. No.	Part No.	Description	Remark
258	3-040-031-01	DAMPER (T)	
259	3-040-058-01	GEAR (MDL)	
260	3-040-052-01	WHEEL (U), WORM	
261	3-040-054-01	WHEEL (LW), WORM	
262	3-040-056-01	LEVER (D)	
263	3-040-057-01	LEVER (LOCK)	
264	A-3307-422-A	CHASSIS (M) COMPLETE ASSY	

5-7. CD MECHANISM SECTION (3)
(MG-393X-121//K)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
301	X-3378-480-1	CHASSIS (OP) ASSY (including M901)	
302	3-040-029-01	SPRING (SL), TORSION	
303	3-040-045-01	BASE (DRIVING)	
304	3-040-194-01	GEAR (MIDWAY)	
305	A-3301-983-A	SHAFT (FEED) ASSY	
306	3-040-030-01	SPRING (FEED), PLATE	
307	1-677-182-11	MOTOR FLEXIBLE BOARD	
* 308	1-676-708-11	SL SW BOARD	
309	3-909-607-01	SCREW	
⚠310	8-820-103-11	PICK-UP, OPTICAL KSS-720A/C-RP	
311	1-676-707-11	PICK-UP FLEXIBLE BOARD	
M902	A-3301-985-A	MOTOR ASSY, SLED (SLED)	
#8	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3	
#10	7-627-850-28	SCREW, PRECISION +P 1.4X3	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  CND: Canadian model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
	A-3274-362-A	DISPLAY BOARD, COMPLETE (US,CND)	
	A-3274-373-A	DISPLAY BOARD, COMPLETE (AEP,UK,E)	
		**********	
	1-694-924-11	CONDUCTIVE BOARD, CONNECTION	
	1-694-925-11	CONDUCTIVE BOARD, CONNECTION	
	1-694-926-11	CONDUCTIVE BOARD, CONNECTION	
*	3-230-468-01	SHEET (DSPL), DIFFUSION	
	3-238-807-01	BRACKET (LCD MAIN)	
	3-238-808-01	SHEET (MAIN), REFLECTION	
	3-238-809-01	PLATE (LCD MAIN), LIGHT GUIDE	
	3-238-825-01	BRACKET (LCD KEY)	
	3-238-826-01	SHEET (KEY), DIFFUSION	
	3-238-827-01	PLATE (LCD KEY), LIGHT GUIDE	
		< CAPACITOR >	
C901	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C902	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C903	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C904	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C905	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C906	1-115-412-11	CERAMIC CHIP 680PF 5% 25V	
C907	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C908	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C909	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C910	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C911	1-115-412-11	CERAMIC CHIP 680PF 5% 25V	
C912	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C913	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
		< CONNECTOR >	
CN901	1-794-184-11	CONNECTOR, FPC (ZIF) 14P	
		< DIODE >	
D902	8-719-422-41	DIODE MA8051-L-TX	
D903	8-719-978-33	DIODE DTZ-TT11-6.8B	
D904	8-719-978-33	DIODE DTZ-TT11-6.8B	
D905	8-719-978-33	DIODE DTZ-TT11-6.8B	
D906	8-719-978-33	DIODE DTZ-TT11-6.8B	
D907	8-719-978-33	DIODE DTZ-TT11-6.8B	
D908	8-719-420-14	DIODE MA8082-M	
D910	8-719-978-33	DIODE DTZ-TT11-6.8B	
D912	8-719-978-33	DIODE DTZ-TT11-6.8B	

Ref. No.	Part No.	Description	Remark
		< IC >	
IC1	6-701-630-01	IC LC75848T-E	
IC2	6-701-630-01	IC LC75848T-E	
IC903	8-749-012-25	IC RS-170-TU	
		< LIQUID CRYSTAL DISPLAY >	
LCD902	1-804-636-11	DISPLAY PANEL, LIQUID CRYSTAL	
LCD903	1-804-634-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< DIODE >	
LED901	8-719-079-49	LED NSSW450-BRS-TVR (SONY)	
LED903	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED904	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED905	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED906	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED907	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED908	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED911	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED912	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED913	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED914	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED915	8-719-079-10	LED CL-220UB-X-TS (RING ILLUMINATION)	
LED916	8-719-079-10	LED CL-220UB-X-TS (RING ILLUMINATION)	
LED917	8-719-053-09	LED SML-310VTT86 (DISC –)	
LED918	8-719-053-09	LED SML-310VTT86 (MENU)	
		< SWITCH >	
LSW901	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (⏏)	
LSW902	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (ENTER)	
LSW903	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (LIST)	
LSW904	1-771-883-11	SWITCH, TACTILE (WITH LED) (DISC +)	
LSW906	1-771-883-11	SWITCH, TACTILE (WITH LED) (DSO)	
LSW907	1-771-883-11	SWITCH, TACTILE (WITH LED) (EQ7)	
LSW908	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (SOUND)	
LSW909	1-771-883-11	SWITCH, TACTILE (WITH LED) (TA) (AEP,UK,E)	
LSW910	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (OFF)	
LSW911	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (SOURCE)	
LSW912	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (CLOSE)	
LSW913	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (SCRL)	
LSW914	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (DSPL/PTY)	
LSW915	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (MODE)	
LSW916	1-771-883-11	SWITCH, TACTILE (WITH LED) (OPEN)	

DISPLAY | IN SELF SW | LOAD-SW

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q901	8-729-900-53	TRANSISTOR DTC114EK			
Q902	8-729-106-60	TRANSISTOR 2SB1115A			
Q903	8-729-106-60	TRANSISTOR 2SB1115A			
Q904	8-729-900-53	TRANSISTOR DTC114EK			
Q905	8-729-904-66	TRANSISTOR DTD113EK-T-146			
Q906	8-729-904-66	TRANSISTOR DTD113EK-T-146			
Q907	8-729-106-60	TRANSISTOR 2SB1115A			
Q908	8-729-900-53	TRANSISTOR DTC114EK			
Q909	8-729-904-66	TRANSISTOR DTD113EK-T-146			
		< RESISTOR >			
R901	1-216-833-11	METAL CHIP	10K	5%	1/10W
R902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R903	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R904	1-216-033-00	METAL CHIP	220	5%	1/10W
R907	1-218-855-11	RES-CHIP	2.2K	2%	1/16W
R908	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R909	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R910	1-218-847-11	RES-CHIP	1K	2%	1/16W
R911	1-219-286-11	RES-CHIP	680	2%	1/16W
R912	1-219-286-11	RES-CHIP	680	2%	1/16W
R913	1-219-286-11	RES-CHIP	680	2%	1/16W
R914	1-216-833-11	METAL CHIP	10K	5%	1/10W
R915	1-218-867-11	RES-CHIP	6.8K	2%	1/16W
R916	1-218-863-11	RES-CHIP	4.7K	2%	1/16W
R917	1-218-859-11	RES-CHIP	3.3K	2%	1/16W
R918	1-218-855-11	RES-CHIP	2.2K	2%	1/16W
R919	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R920	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R921	1-218-847-11	RES-CHIP	1K	2%	1/16W
R922	1-219-286-11	RES-CHIP	680	2%	1/16W
R923	1-219-286-11	RES-CHIP	680	2%	1/16W
R924	1-219-286-11	RES-CHIP	680	2%	1/16W
R925	1-216-837-11	METAL CHIP	22K	5%	1/10W
R926	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R927	1-216-833-11	METAL CHIP	10K	5%	1/10W
R928	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R929	1-216-833-11	METAL CHIP	10K	5%	1/10W
R930	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R931	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R932	1-216-037-00	METAL CHIP	330	5%	1/10W
R933	1-216-033-00	METAL CHIP	220	5%	1/10W
R934	1-216-025-11	RES-CHIP	100	5%	1/10W
R935	1-216-033-00	METAL CHIP	220	5%	1/10W
R936	1-216-025-11	RES-CHIP	100	5%	1/10W
R937	1-216-033-00	METAL CHIP	220	5%	1/10W
R938	1-216-025-11	RES-CHIP	100	5%	1/10W
R940	1-216-033-00	METAL CHIP	220	5%	1/10W
R941	1-216-025-11	RES-CHIP	100	5%	1/10W
R942	1-216-025-11	RES-CHIP	100	5%	1/10W
R943	1-216-821-11	METAL CHIP	1K	5%	1/10W
R945	1-208-771-11	RES-CHIP	360	5%	1/10W
R946	1-216-015-00	METAL CHIP	39	5%	1/10W
R951	1-216-029-00	METAL CHIP	150	5%	1/10W

Ref. No.	Part No.	Description			Remark
R953	1-216-029-00	METAL CHIP	150	5%	1/10W
R955	1-216-029-00	METAL CHIP	150	5%	1/10W
R957	1-216-029-00	METAL CHIP	150	5%	1/10W
R959	1-216-029-00	METAL CHIP	150	5%	1/10W
R964	1-216-811-11	METAL CHIP	150	5%	1/10W
R967	1-216-805-11	METAL CHIP	47	5%	1/10W
R968	1-216-821-11	METAL CHIP	1K	5%	1/10W
R969	1-216-809-11	METAL CHIP	100	5%	1/10W
R970	1-216-809-11	METAL CHIP	100	5%	1/10W
R971	1-216-809-11	METAL CHIP	100	5%	1/10W
R972	1-216-841-11	METAL CHIP	47K	5%	1/10W
R974	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R975	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R976	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R977	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R978	1-216-809-11	METAL CHIP	100	5%	1/10W
R979	1-216-809-11	METAL CHIP	100	5%	1/10W
R980	1-216-809-11	METAL CHIP	100	5%	1/10W
R981	1-216-821-11	METAL CHIP	1K	5%	1/10W
R982	1-216-841-11	METAL CHIP	47K	5%	1/10W
R984	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R985	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R986	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R987	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R988	1-216-037-00	METAL CHIP	330	5%	1/10W
R990	1-216-025-11	RES-CHIP	100	5%	1/10W (US,CND)
		< SWITCH >			
S901	1-771-884-11	SWITCH, TACTILE (WITH LED) (DISC –)			
S902	1-771-884-11	SWITCH, TACTILE (WITH LED) (AMS/SEEK ▶▶I ▶▶)			
S903	1-771-884-11	SWITCH, TACTILE (WITH LED) (AMS/SEEK I◀◀ ◀◀)			
S904	1-771-884-11	SWITCH, TACTILE (WITH LED) (VOL –)			
S905	1-771-884-11	SWITCH, TACTILE (WITH LED) (VOL +)			
S906	1-771-884-11	SWITCH, TACTILE (WITH LED) (RESET)			
S908	1-771-884-11	SWITCH, TACTILE (WITH LED) (MENU)			
**********					
*	1-676-709-11	IN SELF SW BOARD			
		**********			
		< SWITCH >			
SW2	1-529-566-31	SWITCH, PUSH (1 KEY) (SELF)			
SW3	1-529-566-31	SWITCH, PUSH (1 KEY) (DISC IN)			
**********					
*	1-685-337-11	LOAD-SW BOARD			
		**********			
		< SWITCH >			
SW5	1-529-566-31	SWITCH, PUSH (1 KEY) (DOWN)			
**********					

Ref. No.	Part No.	Description			Remark
	A-3274-359-A	MAIN BOARD, COMPLETE (US,CND)			
	A-3274-370-A	MAIN BOARD, COMPLETE (AEP,UK,E)			
		**********			
*	3-019-565-01	BRACKET (IC)			
*	3-045-760-01	HEAT SINK (REG)			
*	3-230-509-01	CHASSIS, BACK			
*	3-230-510-31	HEAT SINK			
	7-685-792-09	SCREW +PTT 2.6X6 (S)			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
		< BUZZER >			
BZ801	1-544-886-11	BUZZER			
		< CAPACITOR >			
C101	1-124-233-11	ELECT	10uF	20%	16V
C102	1-124-233-11	ELECT	10uF	20%	16V
C103	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C104	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C105	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C106	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-124-233-11	ELECT	10uF	20%	16V
C202	1-124-233-11	ELECT	10uF	20%	16V
C203	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C204	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C205	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C206	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C303	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C311	1-136-154-00	FILM	0.012uF	5%	50V
C312	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C313	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C321	1-136-154-00	FILM	0.012uF	5%	50V
C322	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C323	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C324	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C325	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C328	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C329	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C330	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C334	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C335	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C336	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C337	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C338	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C339	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C341	1-124-589-11	ELECT	47uF	20%	16V
C342	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C353	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C363	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C370	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C371	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C373	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C375	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C376	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C377	1-124-589-11	ELECT	47uF	20%	16V
C378	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C379	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C380	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C401	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C402	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C403	1-126-160-11	ELECT	1uF	20%	50V
C404	1-124-234-00	ELECT	22uF	20%	16V
C405	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C406	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C407	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C408	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C409	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C410	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C411	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C412	1-124-584-00	ELECT	100uF	20%	10V
C413	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C416	1-115-156-11	CERAMIC CHIP	1uF		10V
C428	1-115-156-11	CERAMIC CHIP	1uF		10V
C429	1-124-589-11	ELECT	47uF	20%	16V
C436	1-135-473-21	ELECT	3300uF	20%	16V
C437	1-124-465-00	ELECT	0.47uF	20%	50V
C438	1-124-233-11	ELECT	10uF	20%	16V
C440	1-126-160-11	ELECT	1uF	20%	50V
C442	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C461	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C462	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C465	1-124-233-11	ELECT	10uF	20%	16V
C470	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C602	1-216-864-11	METAL CHIP	0	5%	1/10W (AEP,UK,E)
C603	1-163-237-11	CERAMIC CHIP	27PF	5%	50V (AEP,UK,E)
C604	1-163-237-11	CERAMIC CHIP	27PF	5%	50V (AEP,UK,E)
C607	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C609	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (AEP,UK,E)
C610	1-124-257-00	ELECT	2.2uF	20%	50V (AEP,UK,E)
C611	1-162-959-11	CERAMIC CHIP	330PF	5%	50V (AEP,UK,E)
C612	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C613	1-124-589-11	ELECT	47uF	20%	16V (AEP,UK,E)
C614	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C615	1-124-234-00	ELECT	22uF	20%	16V
C616	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C619	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C620	1-163-038-00	CERAMIC CHIP	0.1uF		25V (AEP,UK,E)
C621	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (AEP,UK,E)

MAIN

Ref. No.	Part No.	Description			Remark
C622	1-162-962-11	CERAMIC CHIP	470PF	10%	50V (AEP,UK,E)
C623	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C624	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C625	1-164-005-11	CERAMIC CHIP	0.47uF		25V (AEP,UK,E)
C626	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (AEP,UK,E)
C628	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C632	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C633	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C634	1-216-295-11	SHORT	0		
C637	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C638	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C639	1-115-156-11	CERAMIC CHIP	1uF		10V
C642	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C643	1-115-156-11	CERAMIC CHIP	1uF		10V
C645	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C646	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (AEP,UK,E)
C702	1-126-176-11	ELECT	220uF	20%	10V
C703	1-128-057-11	ELECT	330uF	20%	6.3V
C704	1-126-176-11	ELECT	220uF	20%	10V
C705	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C706	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C707	1-115-156-11	CERAMIC CHIP	1uF		10V
C801	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C802	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (AEP,UK,E)
C802	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V (US,CND)
C803	1-164-160-11	CERAMIC CHIP	20PF	5%	50V
C804	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C806	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C807	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C808	1-115-156-11	CERAMIC CHIP	1uF		10V
C809	1-115-156-11	CERAMIC CHIP	1uF		10V
C810	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C812	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C813	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C814	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C815	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C816	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C817	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C818	1-124-119-00	ELECT	330uF	20%	16V
C819	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C820	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C821	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C822	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C823	1-126-924-11	ELECT	330uF	20%	10V
C901	1-124-584-00	ELECT	100uF	20%	10V
C902	1-115-156-11	CERAMIC CHIP	1uF		10V
C903	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C904	1-124-599-11	ELECT	220uF	20%	25V
C905	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C906	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C907	1-124-233-11	ELECT	10uF	20%	16V
C908	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C909	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C910	1-115-156-11	CERAMIC CHIP	1uF		10V
C911	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C912	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C913	1-126-176-11	ELECT	220uF	20%	10V
C914	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C915	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C916	1-126-176-11	ELECT	220uF	20%	10V
C917	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C918	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C920	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C921	1-110-654-11	DOUBLE LAYERS	0.047F		5.5V
C922	1-128-057-11	ELECT	330uF	20%	6.3V
C923	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C924	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C927	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C928	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C929	1-126-153-11	ELECT	22uF	20%	6.3V
C960	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C961	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

< CONNECTOR >

CNP701	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P	
CNP801	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)	
CNP802	1-794-185-11	CONNECTOR, FPC (ZIF) 14P	
CNP805	1-563-614-31	CONNECTOR, FLEXIBLE 11P	
CNP901	1-774-701-11	PIN, CONNECTOR 16P	
* CNP902	1-568-954-11	PIN, CONNECTOR 5P	

< JACK >

CNP803	1-764-270-21	JACK, STEREO MINIATURE (DIA.3.5)	(REMOTE IN)

< DIODE >

D301	8-719-914-43	DIODE	DAN202K
D303	8-719-914-44	DIODE	DAP202K
D304	8-719-978-33	DIODE	DTZ-TT11-6.8B
D402	8-719-988-61	DIODE	1SS355TE-17
D403	8-719-422-16	DIODE	MA8039-L-TX
D405	8-719-053-18	DIODE	1SR154-400TE-25
D406	8-719-053-18	DIODE	1SR154-400TE-25
D407	8-719-053-18	DIODE	1SR154-400TE-25
D408	8-719-053-18	DIODE	1SR154-400TE-25
D409	8-719-053-18	DIODE	1SR154-400TE-25
D410	8-719-053-18	DIODE	1SR154-400TE-25
D411	8-719-053-18	DIODE	1SR154-400TE-25
D412	8-719-053-18	DIODE	1SR154-400TE-25
D420	8-719-978-33	DIODE	DTZ-TT11-6.8B
D508	8-719-988-61	DIODE	1SS355TE-17
D601	8-719-422-41	DIODE	MA8051-L-TX
D602	8-719-987-69	DIODE	DAN217 (AEP,UK,E)
D604	8-719-988-61	DIODE	1SS355TE-17

Ref. No.	Part No.	Description	Remark
D802	8-719-988-61	DIODE 1SS355TE-17	
D803	8-719-422-43	DIODE MA8051-H (AEP,UK,E)	
D804	8-719-988-61	DIODE 1SS355TE-17	
D805	8-719-978-33	DIODE DTZ-TT11-6.8B	
D806	8-719-978-33	DIODE DTZ-TT11-6.8B	
D807	8-719-978-33	DIODE DTZ-TT11-6.8B	
D808	8-719-978-33	DIODE DTZ-TT11-6.8B	
D809	8-719-978-33	DIODE DTZ-TT11-6.8B	
D810	8-719-978-33	DIODE DTZ-TT11-6.8B	
D811	8-719-069-56	DIODE UDZS-TE-17-6.2B	
D815	8-719-058-24	DIODE RB501V-40TE-17	
D819	8-719-978-33	DIODE DTZ-TT11-6.8B	
D820	8-719-978-33	DIODE DTZ-TT11-6.8B	
D825	8-719-058-24	DIODE RB501V-40TE-17	
D826	8-719-422-41	DIODE MA8051-L-TX	
D827	8-719-978-33	DIODE DTZ-TT11-6.8B	
D828	8-719-988-61	DIODE 1SS355TE-17	
D831	8-719-069-56	DIODE UDZS-TE-17-6.2B	
D832	8-719-988-61	DIODE 1SS355TE-17	
D840	8-719-978-33	DIODE DTZ-TT11-6.8B	
D841	8-719-977-12	DIODE DTZ6.8B	
D842	8-719-978-33	DIODE DTZ-TT11-6.8B	
D843	8-719-978-33	DIODE DTZ-TT11-6.8B	
D845	8-719-988-61	DIODE 1SS355TE-17	
D846	8-719-988-61	DIODE 1SS355TE-17	
D901	8-719-049-38	DIODE 1N5404TU	
D902	8-719-055-30	DIODE D1FS4A-TA	
D903	8-719-914-43	DIODE DAN202K	
D904	8-719-977-03	DIODE DTZ5.6B	
D905	8-719-988-61	DIODE 1SS355TE-17	
D906	8-719-053-18	DIODE 1SR154-400TE-25	
D907	8-719-056-93	DIODE UDZ-TE-17-18B	
D908	8-719-056-93	DIODE UDZ-TE-17-18B	
D909	8-719-988-61	DIODE 1SS355TE-17	
D912	8-719-914-43	DIODE DAN202K	
D913	8-719-914-44	DIODE DAP202K	
D914	8-719-058-24	DIODE RB501V-40TE-17	
D915	8-719-978-33	DIODE DTZ-TT11-6.8B	
D916	8-719-055-30	DIODE D1FS4A-TA	
D917	8-719-056-93	DIODE UDZ-TE-17-18B	
D918	8-719-069-56	DIODE UDZS-TE-17-6.2B	
D919	8-719-053-18	DIODE 1SR154-400TE-25	
D921	8-719-914-44	DIODE DAP202K	
D923	8-719-988-61	DIODE 1SS355TE-17	
D924	8-719-914-43	DIODE DAN202K	
JR604	8-719-058-24	DIODE RB501V-40TE-17 (US,CND)	
		< FERRITE BEAD >	
FB801	1-414-235-22	INDUCTOR, FERRITE BEAD	
		< IC >	
IC301	6-801-600-01	IC HD6432398A03FW	
IC303	8-759-277-63	IC TC7W14FU(TE12R)	
IC305	6-701-403-01	IC TDA7406	
IC306	8-759-668-14	IC PQ09DZ1U	
IC307	8-759-580-33	IC BA6288FS-E2	
IC308	8-759-701-01	IC NJM2904M	
IC311	8-759-832-29	IC NJM4580M-(TE2)	
IC312	8-759-832-29	IC NJM4580M-(TE2)	
IC407	8-759-530-28	IC TC4066BFT(EL,N)	
IC409	8-759-909-71	IC BA4558F	
IC601	8-759-492-59	IC SAA6588T-118 (AEP,UK,E)	
IC602	8-759-909-71	IC BA4558F (AEP,UK,E)	
IC801	6-801-598-01	IC MB90574CPMT-G-371-BNDE1 (US,CND)	
IC801	6-801-599-01	IC MB90574CPMT-G-372-BNDE1 (AEP,UK,E)	
IC802	8-759-096-16	IC MM1175XFF	
IC901	8-759-990-43	IC TL1451ACDB	
IC902	6-701-404-01	IC PST3441UL	
IC903	8-759-827-14	IC TA8268AH	
IC905	8-759-540-27	IC TA78DL06AS	
		< JUMPER RESISTOR >	
D413	1-216-295-11	SHORT 0	
D414	1-216-295-11	SHORT 0	
D920	1-216-295-11	SHORT 0	
D930	1-216-295-11	SHORT 0	
JR305	1-216-295-11	SHORT 0	
JR601	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR602	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR604	1-216-295-11	SHORT 0 (AEP,UK,E)	
JR610	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V (AEP,UK,E)	
JR801	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR810	1-216-864-11	METAL CHIP 0 5% 1/10W (AEP,UK,E)	
JR811	1-216-295-11	SHORT 0	
JR812	1-216-864-11	METAL CHIP 0 5% 1/10W (US,CND)	
JR816	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR820	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR901	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR902	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR904	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR905	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR906	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR914	1-216-864-11	METAL CHIP 0 5% 1/10W	
		< COIL >	
L701	1-412-054-21	INDUCTOR 2.2uH	
L901	1-419-476-31	COIL, CHOKE 250uH	
L902	1-419-537-11	COIL, CHOKE 300uH	
L903	1-419-537-11	COIL, CHOKE 300uH	
L904	1-412-054-21	INDUCTOR 2.2uH	
		< JACK >	
PJ401	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN, AUDIO OUT REAR/FRONT)	
		< CONNECTOR >	
* PJ402	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P	
* PJ403	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P	

MAIN

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q101	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q102	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q201	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q202	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q302	8-729-038-68	TRANSISTOR KRC103S	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q401	8-729-038-55	TRANSISTOR KRA103S	
Q402	8-729-144-85	FET 2SK1133	
Q403	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q410	8-729-038-68	TRANSISTOR KRC103S	
Q420	8-729-053-84	FET SSM3K09FU(T5LSONY1)	
Q461	8-729-049-13	FET UPA1853GR-9JG-E1	
Q603	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q605	8-729-038-68	TRANSISTOR KRC103S (AEP,UK,E)	
Q607	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (AEP,UK,E)	
Q803	8-729-038-67	TRANSISTOR KRC102S	
Q804	8-729-038-55	TRANSISTOR KRA103S	
Q806	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q901	8-729-038-68	TRANSISTOR KRC103S	
Q902	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q903	8-729-038-68	TRANSISTOR KRC103S	
Q904	8-729-038-55	TRANSISTOR KRA103S	
Q905	8-729-038-68	TRANSISTOR KRC103S	
Q906	8-729-820-46	TRANSISTOR 2SB1202FAS	
Q907	8-729-038-68	TRANSISTOR KRC103S	
Q908	8-729-106-60	TRANSISTOR 2SB1115A	
Q909	1-801-806-11	TRANSISTOR DTC144EKA	
Q911	8-729-820-46	TRANSISTOR 2SB1202FAS	
Q912	8-729-038-68	TRANSISTOR KRC103S	
Q913	8-729-038-55	TRANSISTOR KRA103S	
Q914	8-729-019-00	TRANSISTOR 2SD2394-G	
Q915	8-729-038-68	TRANSISTOR KRC103S	
Q917	8-729-038-68	TRANSISTOR KRC103S	
Q918	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q919	8-729-106-60	TRANSISTOR 2SB1115A	
Q920	8-729-038-68	TRANSISTOR KRC103S	
Q921	8-729-038-55	TRANSISTOR KRA103S	
Q923	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q924	8-729-038-68	TRANSISTOR KRC103S	
Q925	8-729-106-60	TRANSISTOR 2SB1115A	
Q929	8-729-038-68	TRANSISTOR KRC103S	
Q930	8-729-106-60	TRANSISTOR 2SB1115A	
		< RESISTOR >	
R101	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R102	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R103	1-216-809-11	METAL CHIP 100 5% 1/10W	
R104	1-216-809-11	METAL CHIP 100 5% 1/10W	
R105	1-216-864-11	METAL CHIP 0 5% 1/10W	
R106	1-216-864-11	METAL CHIP 0 5% 1/10W	
R111	1-216-809-11	METAL CHIP 100 5% 1/10W	
R112	1-216-809-11	METAL CHIP 100 5% 1/10W	
R121	1-216-809-11	METAL CHIP 100 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R122	1-216-809-11	METAL CHIP 100 5% 1/10W	
R201	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R202	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R203	1-216-809-11	METAL CHIP 100 5% 1/10W	
R204	1-216-809-11	METAL CHIP 100 5% 1/10W	
R205	1-216-864-11	METAL CHIP 0 5% 1/10W	
R206	1-216-864-11	METAL CHIP 0 5% 1/10W	
R311	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R312	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R313	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R314	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R315	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R316	1-216-864-11	METAL CHIP 0 5% 1/10W	
R317	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R318	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R321	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R322	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R323	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R324	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R325	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R326	1-216-864-11	METAL CHIP 0 5% 1/10W	
R327	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R332	1-216-809-11	METAL CHIP 100 5% 1/10W	
R333	1-216-809-11	METAL CHIP 100 5% 1/10W	
R334	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R335	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R336	1-216-836-11	METAL CHIP 18K 5% 1/10W	
R337	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R338	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R339	1-216-085-00	RES-CHIP 33K 5% 1/10W	
R340	1-216-298-00	METAL CHIP 2.2 5% 1/10W	
R341	1-216-298-00	METAL CHIP 2.2 5% 1/10W	
R342	1-216-298-00	METAL CHIP 2.2 5% 1/10W	
R351	1-216-813-11	METAL CHIP 220 5% 1/10W	
R352	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R353	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R364	1-414-235-22	INDUCTOR, FERRITE BEAD	
R366	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R367	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R371	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R372	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R373	1-216-864-11	METAL CHIP 0 5% 1/10W	
R374	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R375	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R376	1-216-025-11	RES-CHIP 100 5% 1/10W	
R377	1-414-235-22	INDUCTOR, FERRITE BEAD	
R378	1-216-809-11	METAL CHIP 100 5% 1/10W	
R379	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R380	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R381	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R383	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R384	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R385	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R403	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R404	1-216-809-11	METAL CHIP 100 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-864-11	METAL CHIP	0	5%	1/10W (US,CND)
R440	1-216-864-11	METAL CHIP	0	5%	1/10W
R441	1-216-049-11	RES-CHIP	1K	5%	1/10W
R442	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R444	1-216-833-11	METAL CHIP	10K	5%	1/10W
R445	1-216-833-11	METAL CHIP	10K	5%	1/10W
R446	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R447	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R448	1-216-813-11	METAL CHIP	220	5%	1/10W
R449	1-216-837-11	METAL CHIP	22K	5%	1/10W
R450	1-216-864-11	METAL CHIP	0	5%	1/10W
R455	1-216-864-11	METAL CHIP	0	5%	1/10W
R457	1-216-841-11	METAL CHIP	47K	5%	1/10W
R465	1-216-809-11	METAL CHIP	100	5%	1/10W
R466	1-216-833-11	METAL CHIP	10K	5%	1/10W
R521	1-216-821-11	METAL CHIP	1K	5%	1/10W
R527	1-216-845-11	METAL CHIP	100K	5%	1/10W
R528	1-216-845-11	METAL CHIP	100K	5%	1/10W
R603	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (AEP,UK,E)
R604	1-216-113-00	METAL CHIP	470K	5%	1/10W (AEP,UK,E)
R605	1-216-025-11	RES-CHIP	100	5%	1/10W (AEP,UK,E)
R606	1-216-025-11	RES-CHIP	100	5%	1/10W (AEP,UK,E)
R607	1-216-797-11	METAL CHIP	10	5%	1/10W (AEP,UK,E)
R608	1-216-797-11	METAL CHIP	10	5%	1/10W (AEP,UK,E)
R609	1-216-295-11	SHORT	0		(AEP,UK,E)
R610	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R611	1-216-839-11	METAL CHIP	33K	5%	1/10W
R612	1-216-864-11	METAL CHIP	0	5%	1/10W
R613	1-216-841-11	METAL CHIP	47K	5%	1/10W
R614	1-216-041-00	METAL CHIP	470	5%	1/10W
R615	1-216-073-00	RES-CHIP	10K	5%	1/10W (AEP,UK,E)
R616	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP,UK,E)
R617	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP,UK,E)
R618	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AEP,UK,E)
R619	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP,UK,E)
R620	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP,UK,E)
R621	1-216-864-11	METAL CHIP	0	5%	1/10W
R622	1-216-809-11	METAL CHIP	100	5%	1/10W
R623	1-216-809-11	METAL CHIP	100	5%	1/10W
R624	1-216-025-11	RES-CHIP	100	5%	1/10W (AEP,UK,E)
R625	1-216-121-11	RES-CHIP	1M	5%	1/10W (AEP,UK,E)
R626	1-216-009-11	RES-CHIP	22	5%	1/10W (AEP,UK,E)
R627	1-216-073-00	RES-CHIP	10K	5%	1/10W (AEP,UK,E)
R631	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP,UK,E)
R701	1-216-295-11	SHORT	0		
R702	1-216-295-11	SHORT	0		
R703	1-216-295-11	SHORT	0		
R716	1-216-821-11	METAL CHIP	1K	5%	1/10W
R801	1-216-845-11	METAL CHIP	100K	5%	1/10W
R802	1-216-845-11	METAL CHIP	100K	5%	1/10W
R803	1-216-845-11	METAL CHIP	100K	5%	1/10W
R804	1-216-809-11	METAL CHIP	100	5%	1/10W
R805	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R806	1-216-845-11	METAL CHIP	100K	5%	1/10W
R807	1-216-845-11	METAL CHIP	100K	5%	1/10W
R808	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R809	1-216-813-11	METAL CHIP	220	5%	1/10W
R810	1-216-813-11	METAL CHIP	220	5%	1/10W
R811	1-216-813-11	METAL CHIP	220	5%	1/10W
R812	1-216-864-11	METAL CHIP	0	5%	1/10W
R813	1-216-845-11	METAL CHIP	100K	5%	1/10W
R814	1-216-809-11	METAL CHIP	100	5%	1/10W
R815	1-216-809-11	METAL CHIP	100	5%	1/10W
R816	1-216-809-11	METAL CHIP	100	5%	1/10W
R817	1-216-809-11	METAL CHIP	100	5%	1/10W
R818	1-216-864-11	METAL CHIP	0	5%	1/10W
R819	1-216-809-11	METAL CHIP	100	5%	1/10W
R820	1-216-809-11	METAL CHIP	100	5%	1/10W
R821	1-216-845-11	METAL CHIP	100K	5%	1/10W
R823	1-216-081-00	METAL CHIP	22K	5%	1/10W
R824	1-216-025-11	RES-CHIP	100	5%	1/10W
R825	1-216-809-11	METAL CHIP	100	5%	1/10W
R826	1-216-809-11	METAL CHIP	100	5%	1/10W
R827	1-216-845-11	METAL CHIP	100K	5%	1/10W
R830	1-216-845-11	METAL CHIP	100K	5%	1/10W
R831	1-216-841-11	METAL CHIP	47K	5%	1/10W
R832	1-216-809-11	METAL CHIP	100	5%	1/10W
R833	1-216-821-11	METAL CHIP	1K	5%	1/10W
R834	1-208-806-11	RES-CHIP	10K	1%	1/10W
R835	1-208-806-11	RES-CHIP	10K	1%	1/10W
R837	1-216-079-00	METAL CHIP	18K	5%	1/10W
R838	1-216-809-11	METAL CHIP	100	5%	1/10W
R840	1-216-845-11	METAL CHIP	100K	5%	1/10W
R841	1-208-806-11	RES-CHIP	10K	1%	1/10W
R842	1-216-809-11	METAL CHIP	100	5%	1/10W
R843	1-216-821-11	METAL CHIP	1K	5%	1/10W
R844	1-216-821-11	METAL CHIP	1K	5%	1/10W
R845	1-216-821-11	METAL CHIP	1K	5%	1/10W
R846	1-216-821-11	METAL CHIP	1K	5%	1/10W
R847	1-216-821-11	METAL CHIP	1K	5%	1/10W
R848	1-216-809-11	METAL CHIP	100	5%	1/10W
R850	1-216-833-11	METAL CHIP	10K	5%	1/10W
R851	1-216-833-11	METAL CHIP	10K	5%	1/10W
R852	1-216-821-11	METAL CHIP	1K	5%	1/10W

MAIN **SERVO**

Ref. No.	Part No.	Description			Remark
R854	1-216-864-11	METAL CHIP	0	5%	1/10W
R855	1-216-821-11	METAL CHIP	1K	5%	1/10W
R856	1-216-815-11	METAL CHIP	330	5%	1/10W
R857	1-216-845-11	METAL CHIP	100K	5%	1/10W
R858	1-216-833-11	METAL CHIP	10K	5%	1/10W
R862	1-216-845-11	METAL CHIP	100K	5%	1/10W
R863	1-216-845-11	METAL CHIP	100K	5%	1/10W
R865	1-216-845-11	METAL CHIP	100K	5%	1/10W
R866	1-216-821-11	METAL CHIP	1K	5%	1/10W
R867	1-216-845-11	METAL CHIP	100K	5%	1/10W
R868	1-216-853-11	METAL CHIP	470K	5%	1/10W
R870	1-216-809-11	METAL CHIP	100	5%	1/10W
R871	1-216-809-11	METAL CHIP	100	5%	1/10W
R872	1-216-809-11	METAL CHIP	100	5%	1/10W
R873	1-216-809-11	METAL CHIP	100	5%	1/10W
R874	1-216-809-11	METAL CHIP	100	5%	1/10W
R875	1-216-809-11	METAL CHIP	100	5%	1/10W
R876	1-216-809-11	METAL CHIP	100	5%	1/10W
R877	1-216-849-11	METAL CHIP	220K	5%	1/10W
R878	1-216-849-11	METAL CHIP	220K	5%	1/10W
R879	1-216-849-11	METAL CHIP	220K	5%	1/10W
R880	1-216-849-11	METAL CHIP	220K	5%	1/10W
R881	1-216-849-11	METAL CHIP	220K	5%	1/10W
R882	1-216-849-11	METAL CHIP	220K	5%	1/10W
R883	1-216-849-11	METAL CHIP	220K	5%	1/10W
R892	1-216-864-11	METAL CHIP	0	5%	1/10W
R894	1-216-849-11	METAL CHIP	220K	5%	1/10W
R895	1-216-849-11	METAL CHIP	220K	5%	1/10W
R899	1-216-864-11	METAL CHIP	0	5%	1/10W
R901	1-216-835-11	METAL CHIP	15K	5%	1/10W
R902	1-216-835-11	METAL CHIP	15K	5%	1/10W
R903	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R904	1-216-841-11	METAL CHIP	47K	5%	1/10W
R905	1-216-841-11	METAL CHIP	47K	5%	1/10W
R906	1-216-841-11	METAL CHIP	47K	5%	1/10W
R907	1-216-841-11	METAL CHIP	47K	5%	1/10W
R908	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R909	1-216-809-11	METAL CHIP	100	5%	1/10W
R910	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R911	1-218-155-11	RES-CHIP	3.9K	1%	1/10W
R912	1-216-737-11	RES-CHIP	1K	1%	1/10W
R913	1-216-833-11	METAL CHIP	10K	5%	1/10W
R914	1-216-833-11	METAL CHIP	10K	5%	1/10W
R915	1-216-833-11	METAL CHIP	10K	5%	1/10W
R916	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R917	1-216-845-11	METAL CHIP	100K	5%	1/10W
R918	1-216-845-11	METAL CHIP	100K	5%	1/10W
R919	1-216-833-11	METAL CHIP	10K	5%	1/10W
R920	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R921	1-216-821-11	METAL CHIP	1K	5%	1/10W
R922	1-216-837-11	METAL CHIP	22K	5%	1/10W
R923	1-216-821-11	METAL CHIP	1K	5%	1/10W
R924	1-216-821-11	METAL CHIP	1K	5%	1/10W
R925	1-216-839-11	METAL CHIP	33K	5%	1/10W
R926	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R927	1-216-833-11	METAL CHIP	10K	5%	1/10W
R928	1-216-845-11	METAL CHIP	100K	5%	1/10W
R929	1-216-837-11	METAL CHIP	22K	5%	1/10W
R930	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R931	1-216-845-11	METAL CHIP	100K	5%	1/10W
R932	1-216-841-11	METAL CHIP	47K	5%	1/10W
R933	1-216-837-11	METAL CHIP	22K	5%	1/10W
R934	1-216-841-11	METAL CHIP	47K	5%	1/10W
R935	1-216-833-11	METAL CHIP	10K	5%	1/10W
R936	1-218-754-11	RES-CHIP	120K	0.5%	1/10W
R937	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R938	1-216-845-11	METAL CHIP	100K	5%	1/10W
R939	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R940	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R943	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R944	1-216-809-11	METAL CHIP	100	5%	1/10W
R945	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R946	1-216-737-11	RES-CHIP	1K	1%	1/10W
R947	1-216-670-11	METAL CHIP	6.2K	0.5%	1/10W
R948	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R949	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R950	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R952	1-216-809-11	METAL CHIP	100	5%	1/10W
R953	1-216-845-11	METAL CHIP	100K	5%	1/10W
R954	1-216-845-11	METAL CHIP	100K	5%	1/10W
R955	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R956	1-216-809-11	METAL CHIP	100	5%	1/10W
R957	1-216-041-00	METAL CHIP	470	5%	1/10W
R958	1-216-097-11	RES-CHIP	100K	5%	1/10W
R960	1-216-809-11	METAL CHIP	100	5%	1/10W
R961	1-216-809-11	METAL CHIP	100	5%	1/10W

< THERMISTOR (POSITIVE) >

TH801	1-801-792-21	THERMISTOR, POSITIVE
TH802	1-810-940-11	THERMISTOR, POSITIVE
TH803	1-810-940-11	THERMISTOR, POSITIVE

< TUNER >

TU601	A-3220-813-A	TUNER UNIT (TUX-020)

< VIBRATOR >

X351	1-795-165-11	VIBRATOR, CERAMIC (18.432MHz)
X601	1-579-900-21	VIBRATOR, CRYSTAL (4.3MHz) (AEP,UK,E)
X801	1-767-993-41	VIBRATOR, CRYSTAL (3.68MHz)
X802	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)

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*	A-3283-048-A	SERVO BOARD, COMPLETE

****

< CAPACITOR >

C1	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C3	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C4	1-104-609-11	ELECT CHIP	100uF	20%	4V
C5	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C6	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V

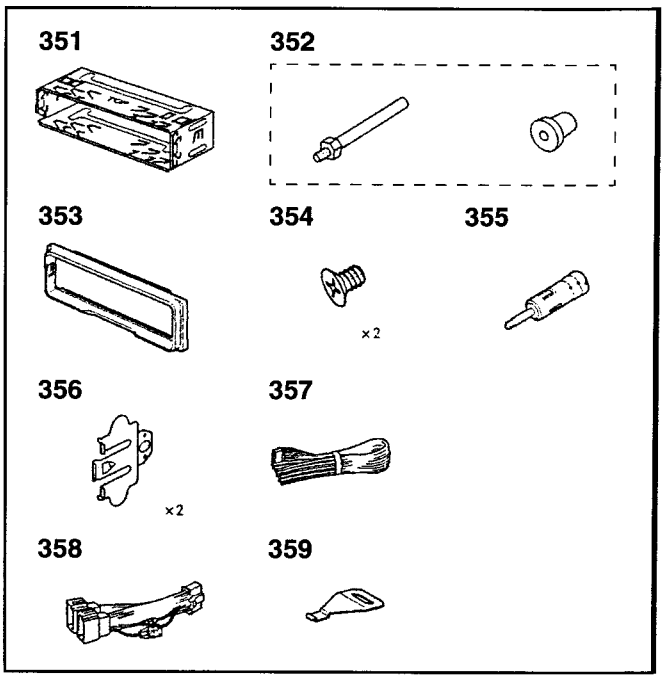
Ref. No.	Part No.	Description			Remark
C8	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C9	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C10	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C11	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C13	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C14	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C15	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C16	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C17	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C18	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C19	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C21	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C22	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C23	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C24	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C25	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C26	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C27	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C29	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C30	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C34	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C35	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C36	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C37	1-126-393-11	ELECT CHIP	33uF	20%	10V
C38	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C40	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C41	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C43	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C44	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C45	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
		< CONNECTOR >			
CN1	1-764-616-12	HOUSING, CONNECTOR (PC BOARD) 30P			
CN2	1-794-153-21	CONNECTOR, FPC (ZIF) 16P			
CN3	1-770-347-21	CONNECTOR, FPC 6P			
		< JUMPER RESISTOR >			
FB1	1-216-864-11	METAL CHIP	0	5%	1/10W
FB2	1-216-864-11	METAL CHIP	0	5%	1/10W
FB3	1-216-864-11	METAL CHIP	0	5%	1/10W
FB4	1-216-864-11	METAL CHIP	0	5%	1/10W
FB6	1-216-864-11	METAL CHIP	0	5%	1/10W
FB7	1-216-864-11	METAL CHIP	0	5%	1/10W
		< IC >			
IC1	8-759-699-98	IC uPD63711GC-8EU			
IC2	8-759-658-87	IC BA5810FP-E2			
		< TRANSISTOR >			
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R			
		< RESISTOR >			
R3	1-216-797-11	METAL CHIP	10	5%	1/10W

Ref. No.	Part No.	Description			Remark
R5	1-218-344-11	RES-CHIP	7.5K	5%	1/10W
R6	1-216-837-11	METAL CHIP	22K	5%	1/10W
R7	1-216-839-11	METAL CHIP	33K	5%	1/10W
R8	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9	1-216-840-11	METAL CHIP	39K	5%	1/10W
R10	1-216-835-11	METAL CHIP	15K	5%	1/10W
R12	1-216-837-11	METAL CHIP	22K	5%	1/10W
R14	1-216-841-11	METAL CHIP	47K	5%	1/10W
R15	1-216-841-11	METAL CHIP	47K	5%	1/10W
R17	1-216-809-11	METAL CHIP	100	5%	1/10W
R18	1-216-809-11	METAL CHIP	100	5%	1/10W
R19	1-216-809-11	METAL CHIP	100	5%	1/10W
R20	1-216-809-11	METAL CHIP	100	5%	1/10W
R21	1-216-821-11	METAL CHIP	1K	5%	1/10W
R22	1-216-821-11	METAL CHIP	1K	5%	1/10W
R24	1-216-864-11	METAL CHIP	0	5%	1/10W
R25	1-216-864-11	METAL CHIP	0	5%	1/10W
R26	1-216-797-11	METAL CHIP	10	5%	1/10W
R29	1-216-833-11	METAL CHIP	10K	5%	1/10W
R30	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< VIBRATOR >			
X1	1-781-759-21	VIBRATOR, CERAMIC (CHIP TYPE) (16.9344MHz)			
**********					
*	1-676-708-11	SL SW BOARD			
		**********			
		< CONNECTOR >			
CN13	1-770-347-21	CONNECTOR, FPC 6P			
		< SWITCH >			
SW4	1-529-565-41	SWITCH, PUSH (1 KEY) (LIMIT)			
**********					
	1-684-224-11	SUB (CD) BOARD			
		**********			
	1-765-143-41	CABLE, FLAT (FFC) 11P			
		< CAPACITOR >			
C504	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C509	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< DIODE >			
D506	8-719-422-41	DIODE MA8051-L-TX			
D509	8-719-978-33	DIODE DTZ-TT11-6.8B			
D511	8-719-017-95	DIODE MA8180-TX			
D512	8-719-079-10	LED CL-220UB-X-TS (DISC IN)			
D514	8-719-988-61	DIODE 1SS355TE-17			
		< JUMPER RESISTOR >			
FB503	1-216-295-11	SHORT	0		
JR551	1-216-864-11	METAL CHIP	0	5%	1/10W

SUB (CD) | SWITCH

Ref. No.	Part No.	Description			Remark
		< IC >			
IC501	8-749-012-25	IC RS-170-TU			
		< TRANSISTOR >			
Q501	8-729-216-22	TRANSISTOR 2SA1162-G			
Q502	8-729-038-67	TRANSISTOR KRC102S			
		< RESISTOR >			
R501	1-216-833-11	METAL CHIP	10K	5%	1/10W
R502	1-216-845-11	METAL CHIP	100K	5%	1/10W
R503	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R504	1-216-035-00	METAL CHIP	270	5%	1/10W
R506	1-216-811-11	METAL CHIP	150	5%	1/10W
R507	1-216-864-11	METAL CHIP	0	5%	1/10W
		< SWITCH >			
SW501	1-692-135-21	SWITCH, KEYBOARD (RESET)			
**********					
	A-3326-298-A	SWITCH BOARD, COMPLETE (including SW900)			
		**********			
**********					
		MISCELLANEOUS			
		**********			
2	1-776-207-72	CORD (WITH CONNECTOR) (POWER) (US,CND)			
2	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (AEP,UK,E)			
113	1-777-246-41	CORD (WITH CONNECTOR) (ANTENNA)			
114	1-790-375-31	CORD (WITH CONNECTOR) (SUB OUT (MONO))			
171	1-685-184-11	FLEXIBLE BOARD			
301	X-3378-480-1	CHASSIS (OP) ASSY (including M901)			
307	1-677-182-11	MOTOR FLEXIBLE BOARD			
⚠310	8-820-103-11	PICK-UP, OPTICAL KSS-720A/C-RP			
311	1-676-707-11	PICK-UP FLEXIBLE BOARD			
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A			
M601	X-3378-769-1	MOTOR ASSY (OPEN/CLOSE)			
M902	A-3301-985-A	MOTOR ASSY, SLED (SLED)			
M903	A-3315-039-A	MOTOR SUB ASSY, LO (LOADING)			
**********					

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		**********	
	1-477-110-11	REMOTE COMMANDER (RM-X117)	
	3-230-047-01	LID, BATTERY CASE (for RM-X117)	
	3-242-100-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH,SPANISH) (US,CND)	
	3-242-100-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN,FRENCH,ITALIAN,DUTCH) (AEP,UK,E)	
	3-242-100-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,TRADITIONAL CHINESE) (E)	
	3-242-546-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH) (US,CND)	
	3-242-546-21	MANUAL, INSTRUCTION (ENGLISH,GERMAN, FRENCH,ITALIAN,DUTCH) (AEP,UK,E)	
	3-242-546-31	MANUAL, INSTRUCTION (ENGLISH,SPANISH, TRADITIONAL CHINESE) (E)	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
351	3-014-370-21	FRAME, FITTING	
352	X-3366-405-1	SCREW ASSY (EXP), FITTING (AEP,UK,E)	
353	3-230-445-01	COLLAR	
354	3-934-325-01	SCREW (+K 5X8 TP)	
355	1-465-459-21	ADAPTOR, ANTENNA (AEP,UK)	
356	3-030-929-04	SPRING, FITTING	
357	1-776-207-72	CORD (WITH CONNECTOR) (POWER) (US,CND)	
358	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (AEP,UK,E)	
359	3-231-993-01	KEY (01)	



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.